

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN059999.D
 Acq On : 4 Feb 2020 17:04
 Operator : JC/MD
 Sample : PB126559ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126559ZHE#12

Quant Time: Feb 05 01:24:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	201628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	310688	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	292641	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	133229	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	113684	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
35) Dibromofluoromethane	7.57	113	93443	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
50) Toluene-d8	10.08	98	375636	52.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.66%	
62) 4-Bromofluorobenzene	12.40	95	137072	52.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.94%	

Target Compounds

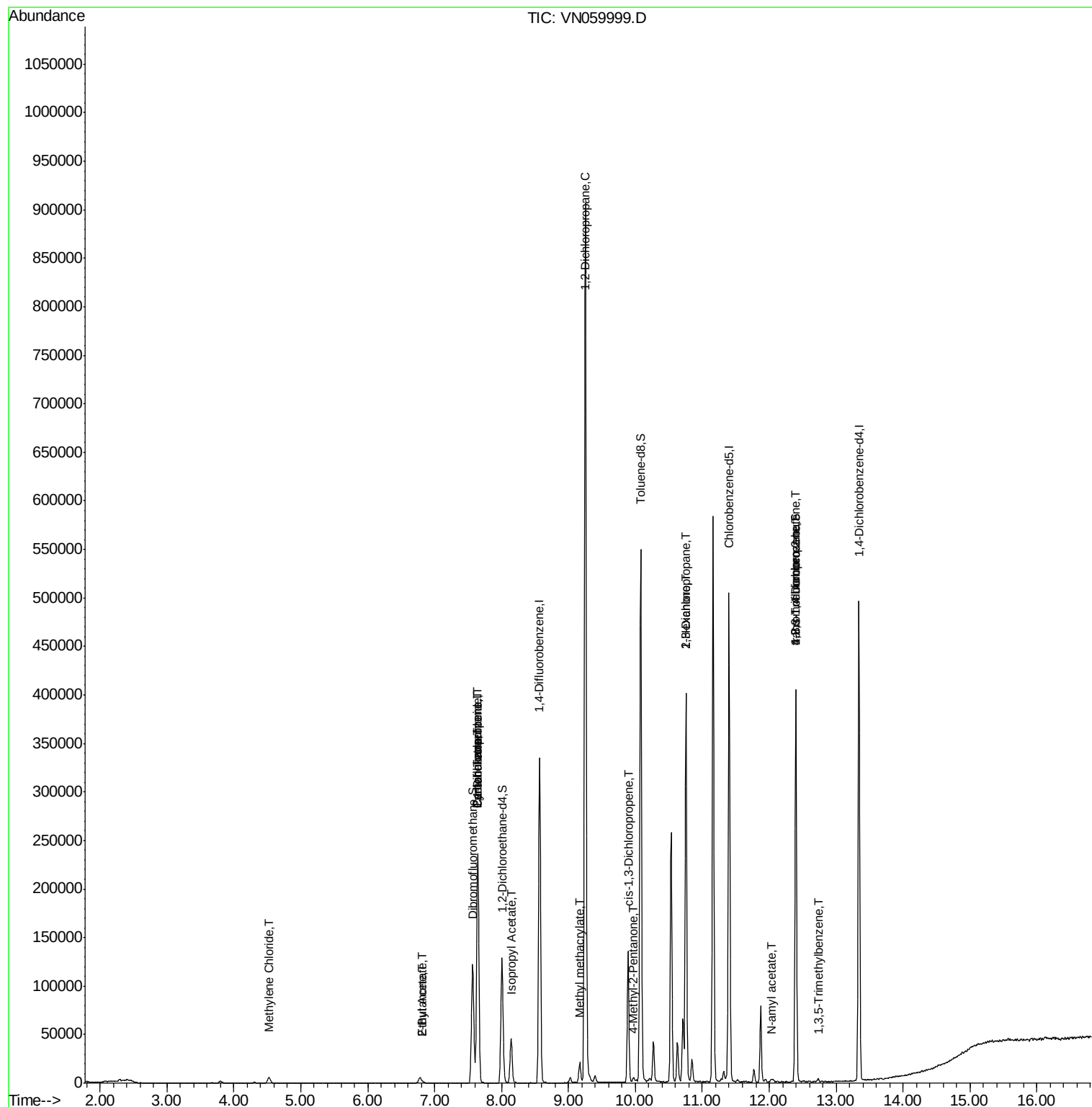
						Qvalue
16) Acetone	3.80	43	3923	Below Cal		97
20) Methylene Chloride	4.52	84	4432	0.917 ug/l		91
25) 2-Butanone	6.82	43	1196	0.943 ug/l #		77
31) Cyclohexane	7.64	56	4097	1.237 ug/l #		8
36) 1,1-Dichloropropene	7.64	75	14289	5.281 ug/l #		51
37) Ethyl Acetate	6.82	43	1196	0.471 ug/l #		69
38) Carbon Tetrachloride	7.64	117	18886	6.417 ug/l #		15
43) Isopropyl Acetate	8.14	43	54417	12.467 ug/l #		90
45) 1,2-Dichloropropane	9.25	63	1118	0.560 ug/l #		44
48) Methyl methacrylate	9.17	41	2907	1.489 ug/l #		13
51) 4-Methyl-2-Pentanone	9.97	43	3607	1.430 ug/l		89
54) cis-1,3-Dichloropropene	9.89	75	25811	7.740 ug/l #		54
57) 1,3-Dichloropropane	10.75	76	4430	1.382 ug/l #		42
59) 2-Hexanone	10.75	43	58091	31.252 ug/l #		55
74) N-amyl acetate	12.03	43	2953	0.779 ug/l #		46
76) 1,2,3-Trichloropropane	12.40	75	70076	31.254 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.73	105	1976	0.240 ug/l		83
81) trans-1,4-Dichloro-2-buten	12.40	75	70076	67.119 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29	Below Cal #		6

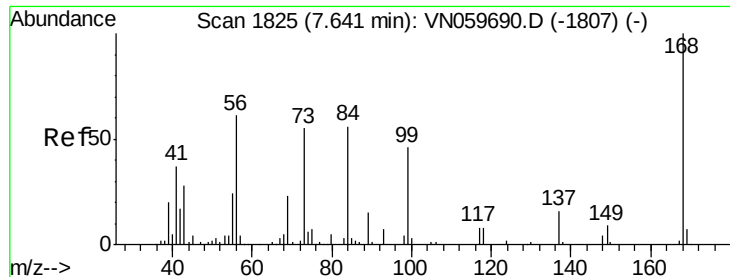
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

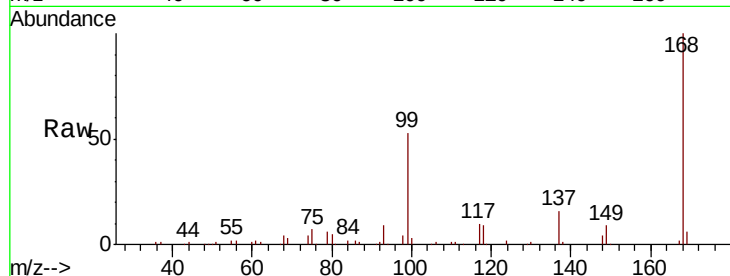
PB126559ZHE#12

Tot Ion:168 Resp: 201628

Ion Ratio Lower Upper

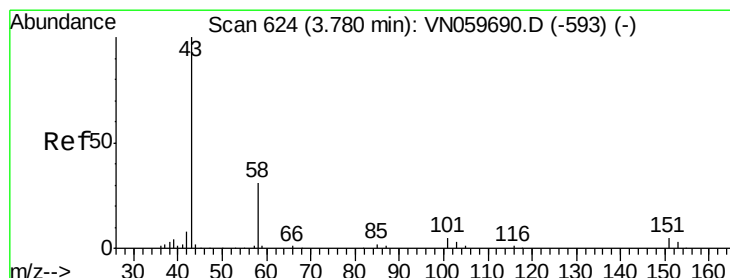
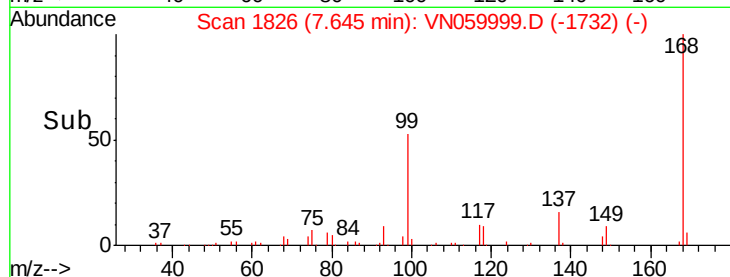
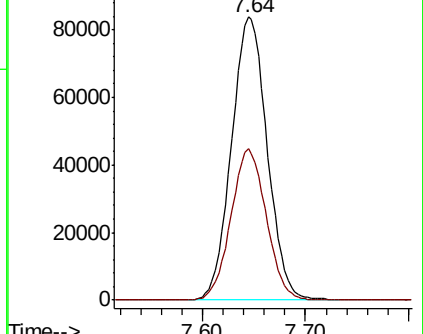
168 100

99 53.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059999.D

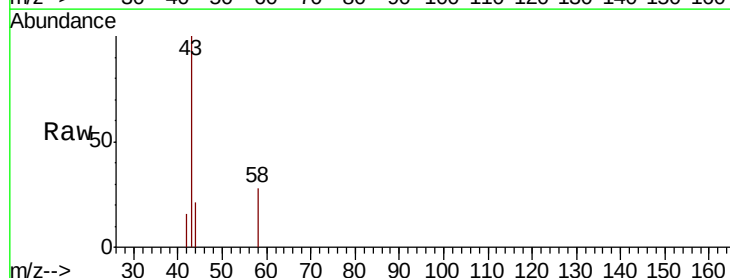
Acq: 4 Feb 2020 17:04

Tgt Ion: 43 Resp: 3923

Ion Ratio Lower Upper

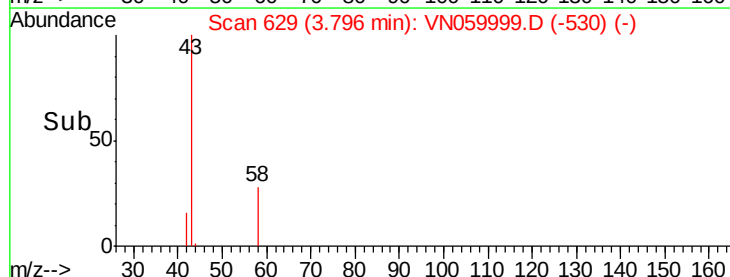
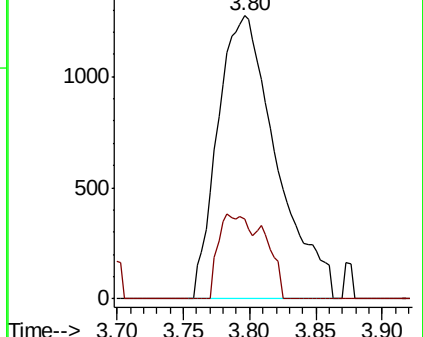
43 100

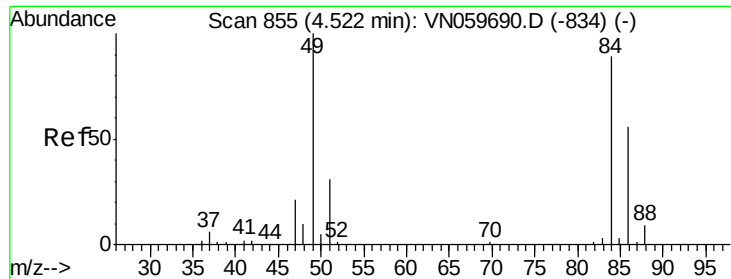
58 28.1 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

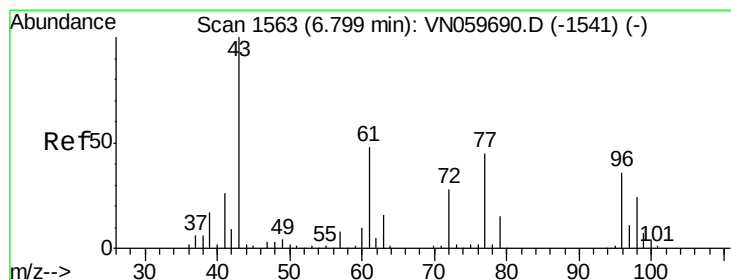
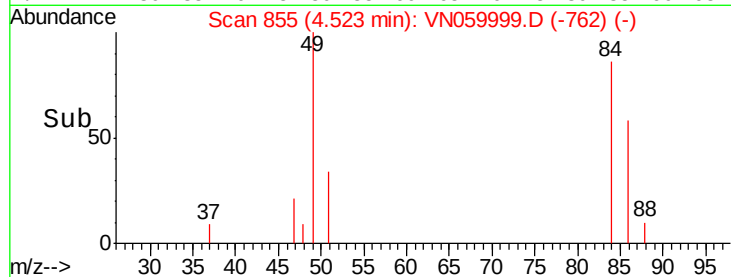
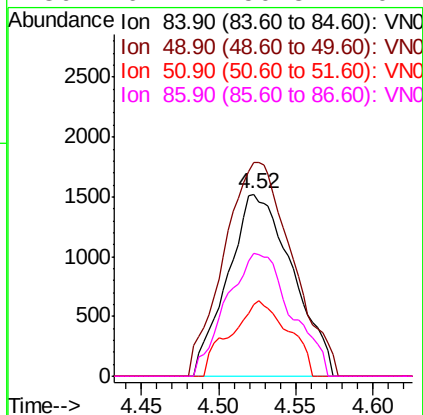
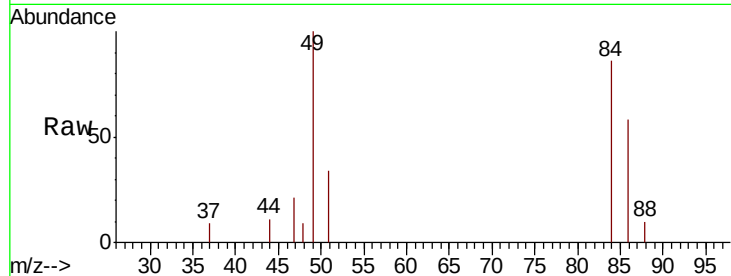




#20
Methvlene Chloride
Concen: 0.917 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

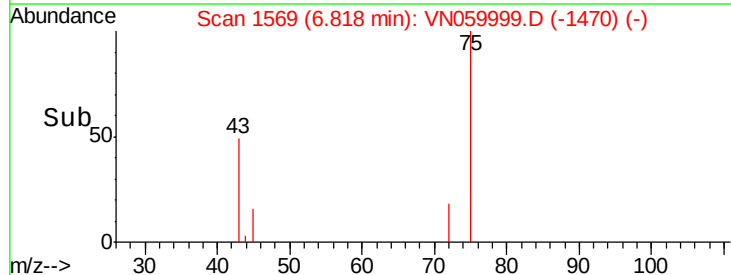
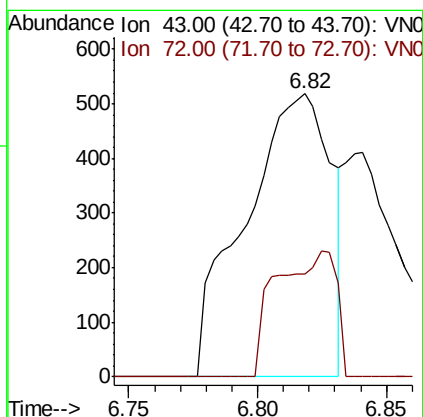
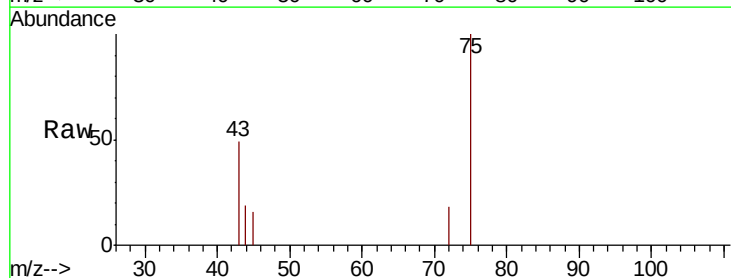
Instrument :
MSVOA_N
ClientSampleId :
PB126559ZHE#12

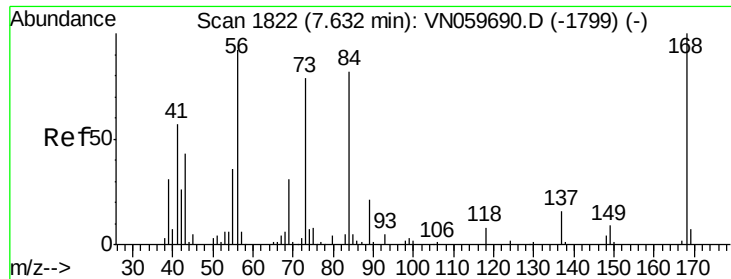
Tot Ion: 84 Resp: 4432
Ion Ratio Lower Upper
84 100
49 116.9 106.6 160.0
51 39.3 31.9 47.9
86 67.7 50.8 76.2



#25
2-Butanone
Concen: 0.943 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

Tgt Ion: 43 Resp: 1196
Ion Ratio Lower Upper
43 100
72 36.3 19.9 29.9#

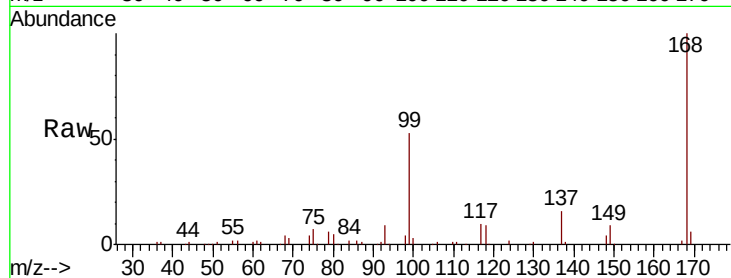




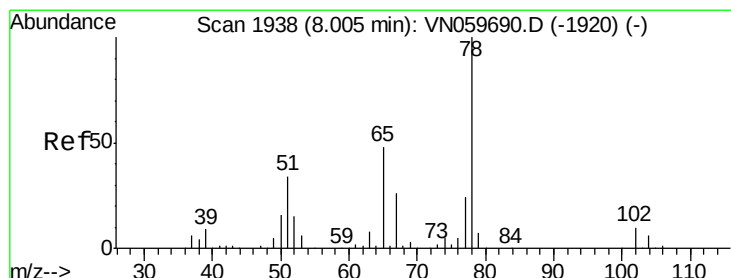
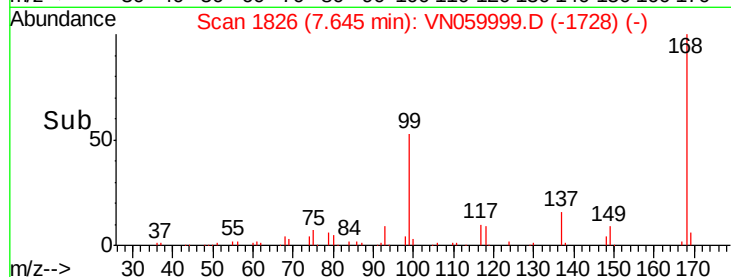
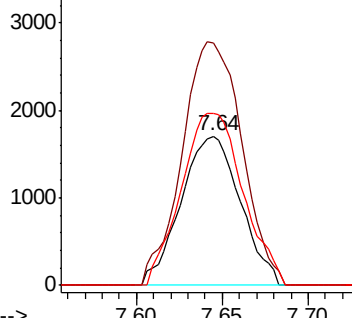
#31
Cyclohexane
Concen: 1.237 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

Instrument :
MSVOA_N
ClientSampleId :
PB126559ZHE#12

Tot Ion: 56 Resp: 4097
Ion Ratio Lower Upper
56 100
69 162.1 26.5 39.7#
84 115.1 65.3 97.9#

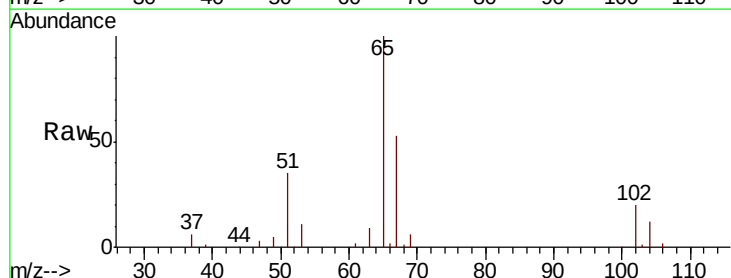


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

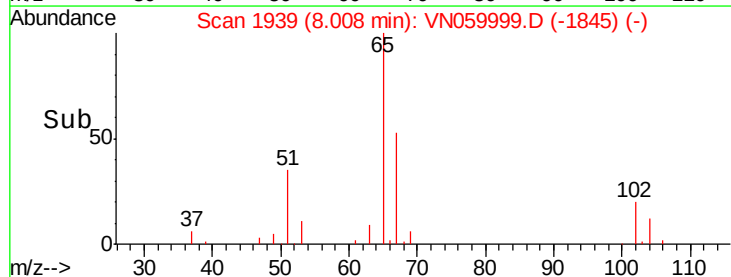
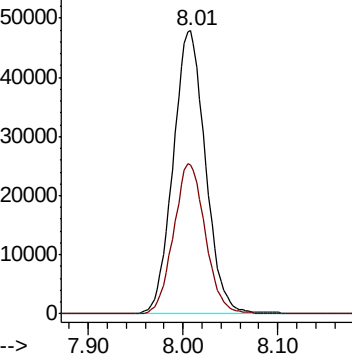


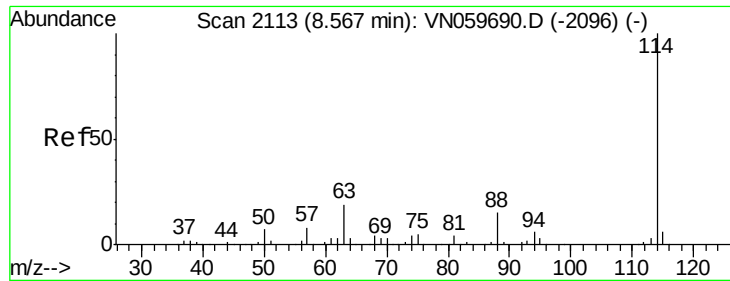
#33
1,2-Dichloroethane-d4
Concen: 50.772 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

Tgt Ion: 65 Resp: 113684
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

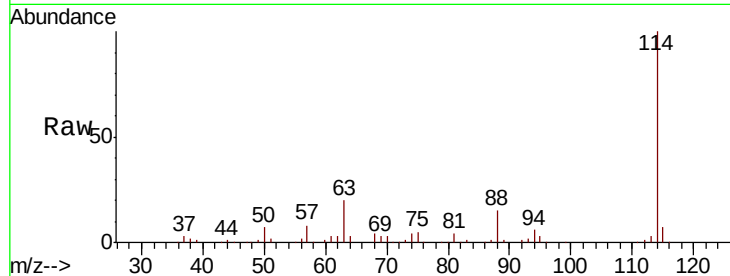




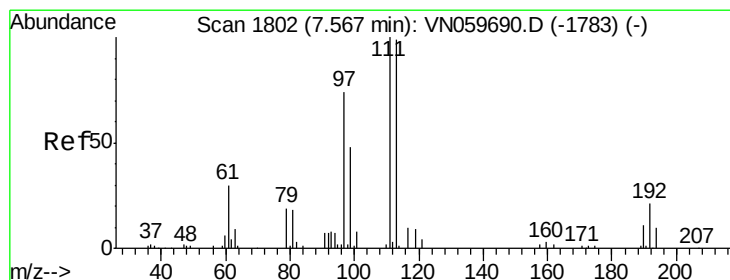
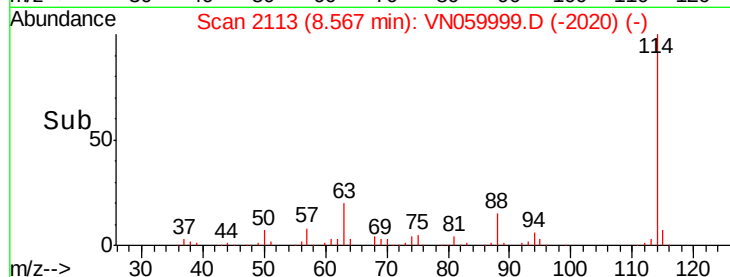
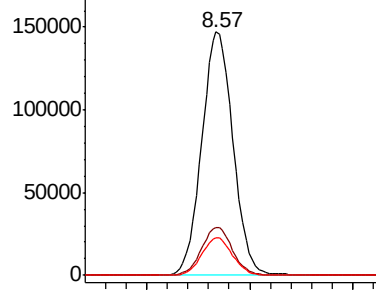
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126559ZHE#12

Tot Ion:114 Resp: 310688
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 43.6
 88 15.4 0.0 31.4

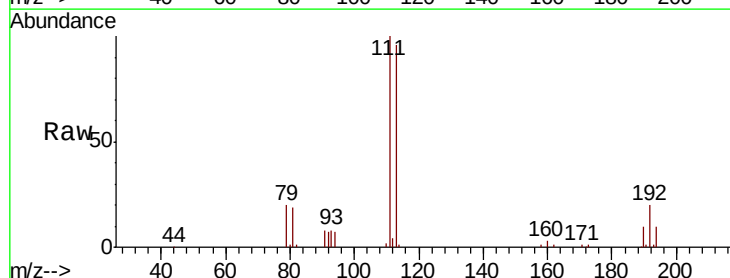


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

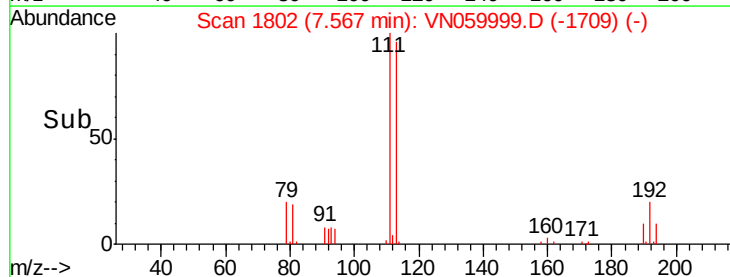
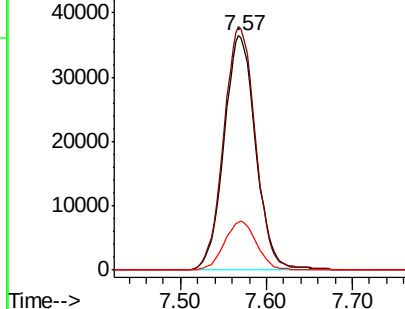


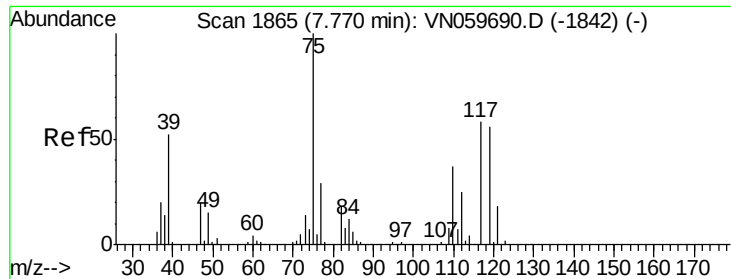
#35
 Dibromofluoromethane
 Concen: 50.434 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

Tgt Ion:113 Resp: 93443
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.5 125.3
 192 21.0 15.4 23.2



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

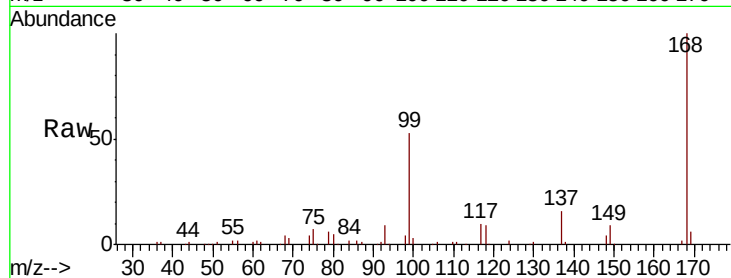




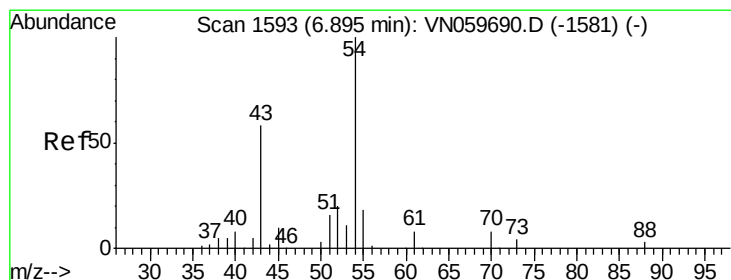
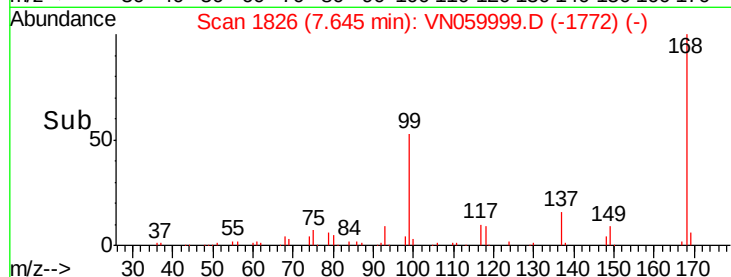
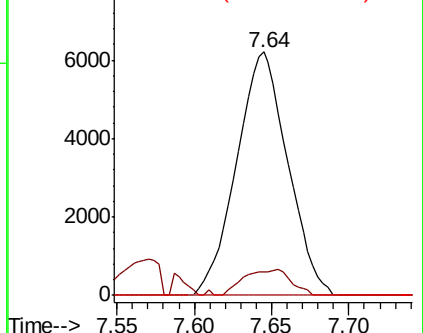
#36
 1,1-Dichloropropene
 Concen: 5.281 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

Instrument :
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 PB126559ZHE#12

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	16.6	49.7#
77	0.0	25.1	37.7#

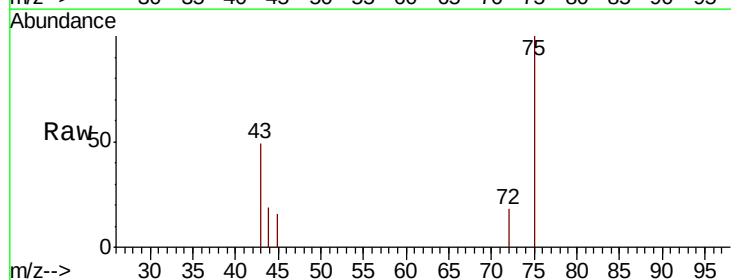


Abundance Ion 74.90 (74.60 to 75.60): VN059999.D (-1842) (-)
 Ion 109.90 (109.60 to 110.60): VN059999.D (-1842) (-)
 Ion 76.90 (76.60 to 77.60): VN059999.D (-1842) (-)

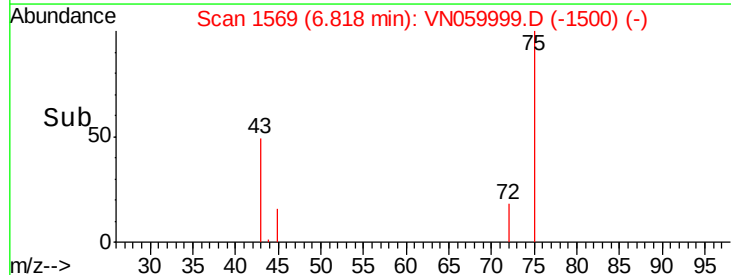
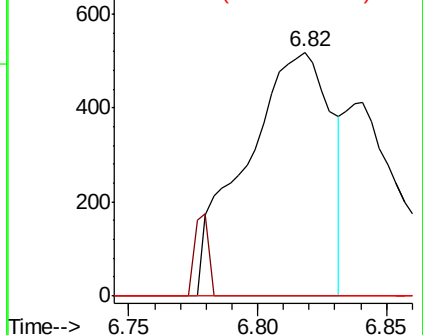


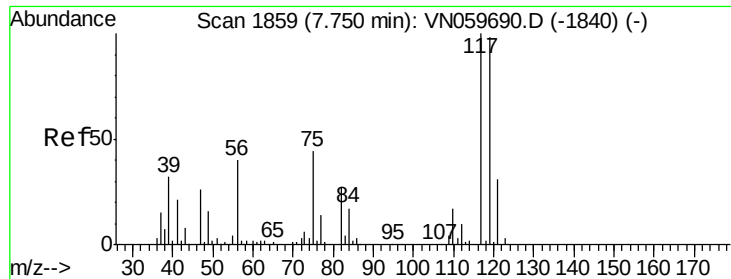
#37
 Ethyl Acetate
 Concen: 0.471 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.08 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	7.7	11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN059999.D (-1581) (-)
 Ion 60.90 (60.60 to 61.60): VN059999.D (-1581) (-)
 Ion 70.00 (69.70 to 70.70): VN059999.D (-1581) (-)





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#12

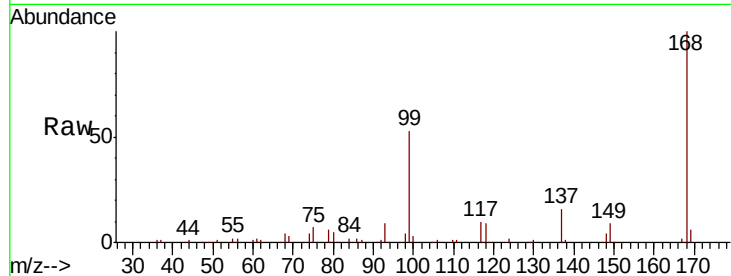
Tot Ion:117 Resp: 18886

Ion Ratio Lower Upper

117 100

119 4.3 76.5 114.7#

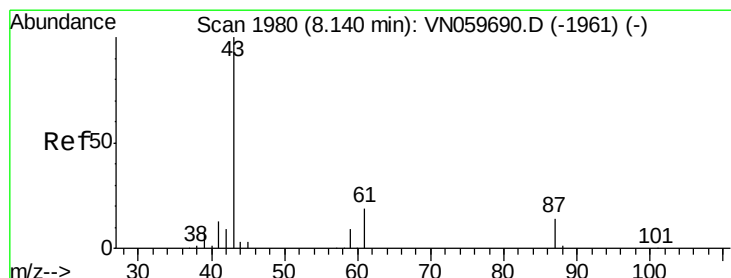
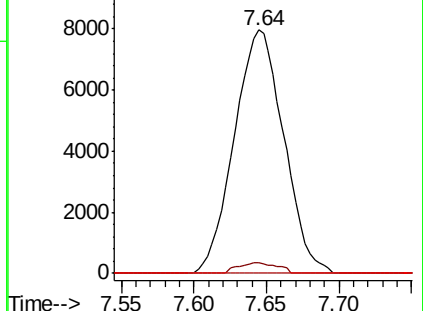
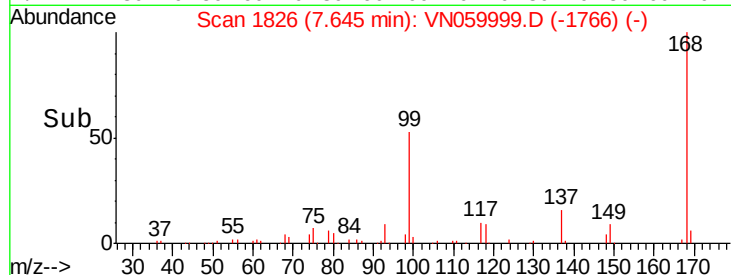
121 0.0 25.1 37.7#



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: 12.467 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

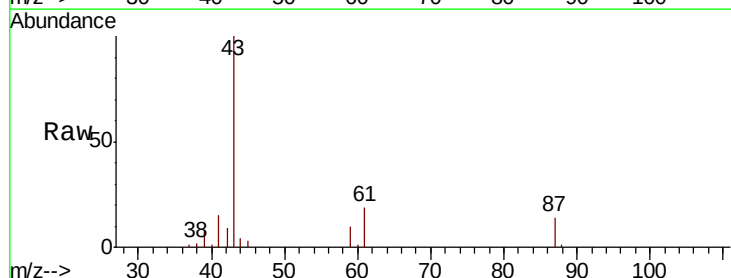
Tgt Ion: 43 Resp: 54417

Ion Ratio Lower Upper

43 100

61 19.3 20.2 30.2#

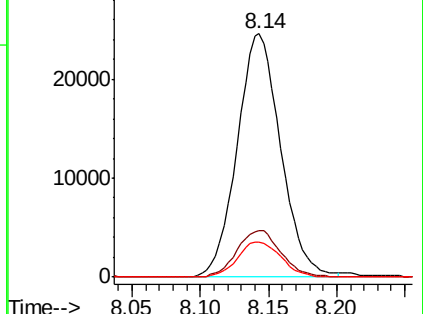
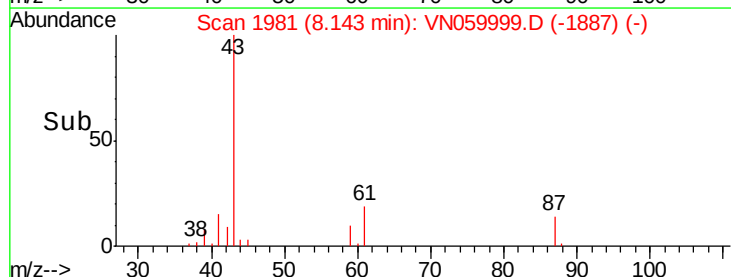
87 14.3 9.5 14.3#

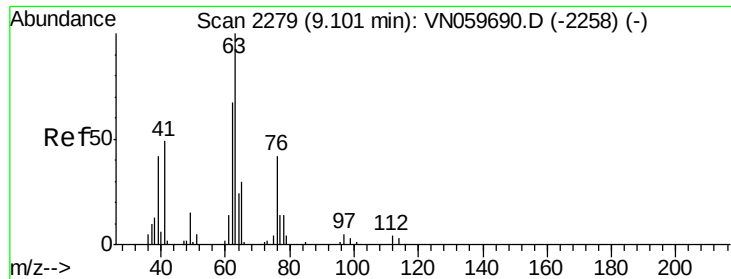


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

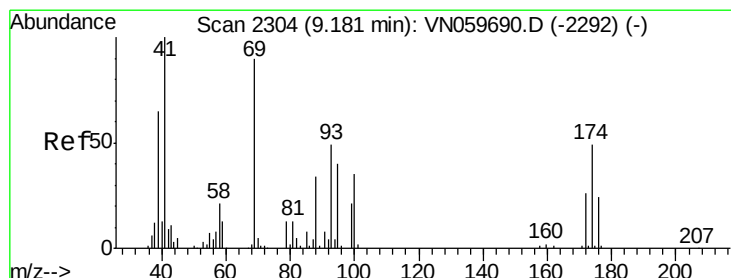
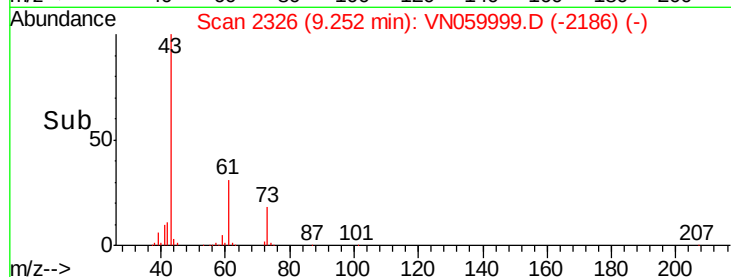
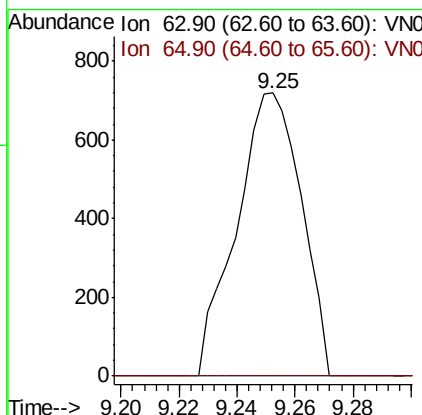
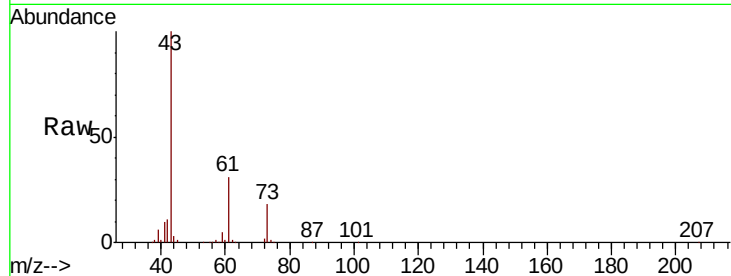




#45
 1,2-Dichloropropane
 Concen: 0.560 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

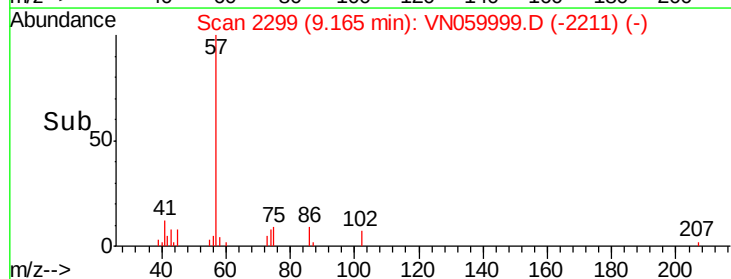
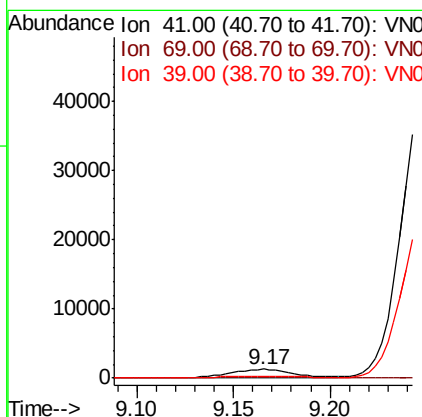
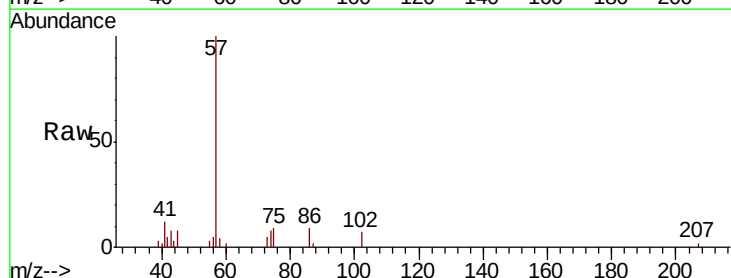
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126559ZHE#12

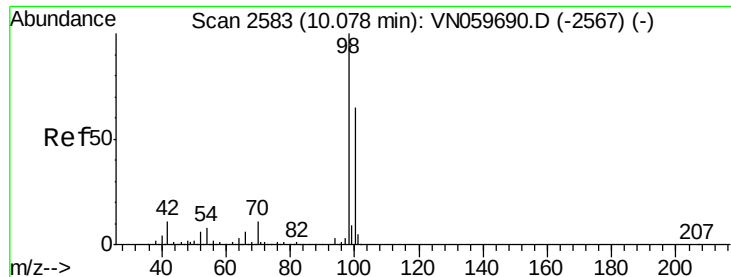
Tot Ion: 63 Resp: 1118
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.489 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN059999.D
 Acq: 4 Feb 2020 17:04

Tgt Ion: 41 Resp: 2907
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 52.327 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

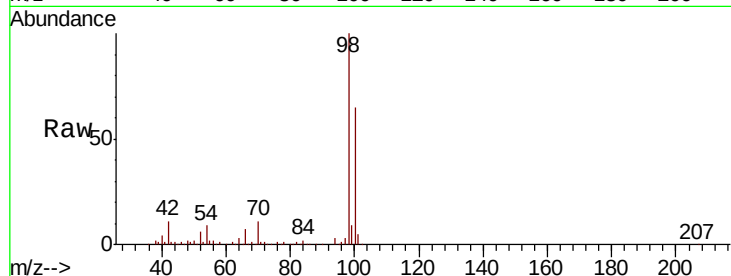
PB126559ZHE#12

Tot Ion: 98 Resp: 375636

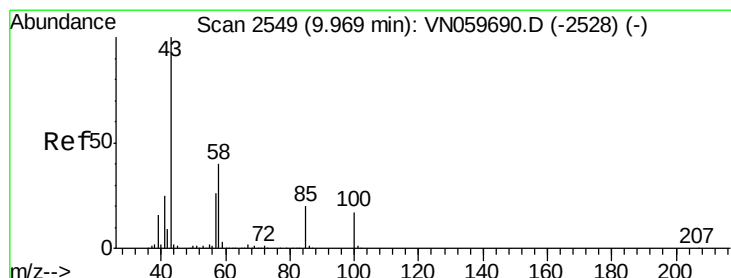
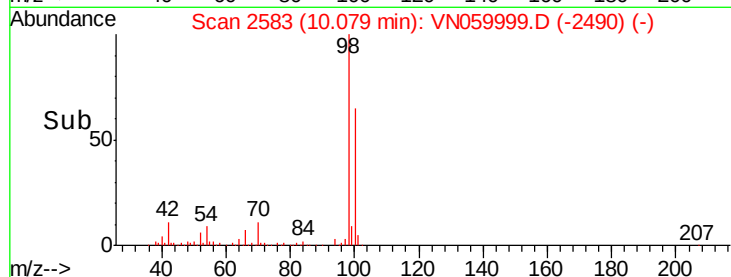
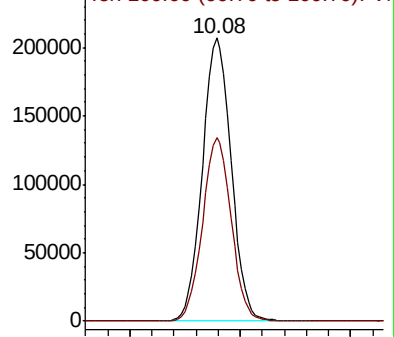
Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.430 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059999.D

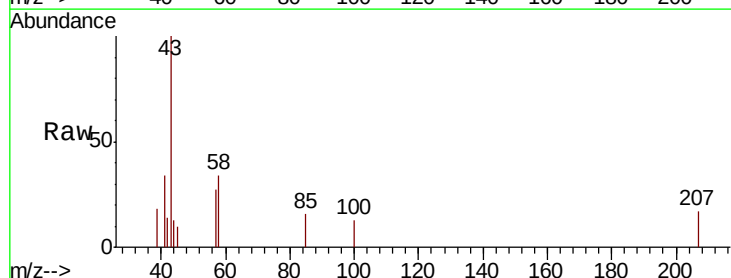
Acq: 4 Feb 2020 17:04

Tgt Ion: 43 Resp: 3607

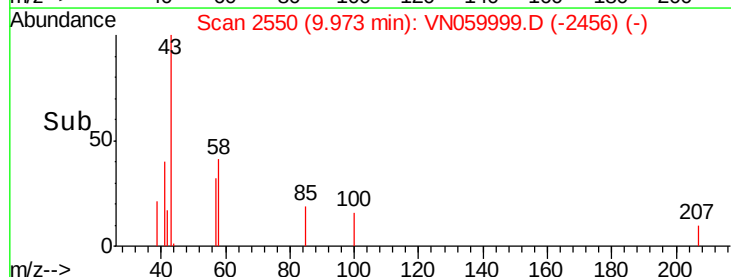
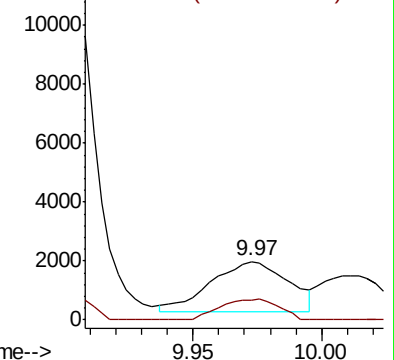
Ion Ratio Lower Upper

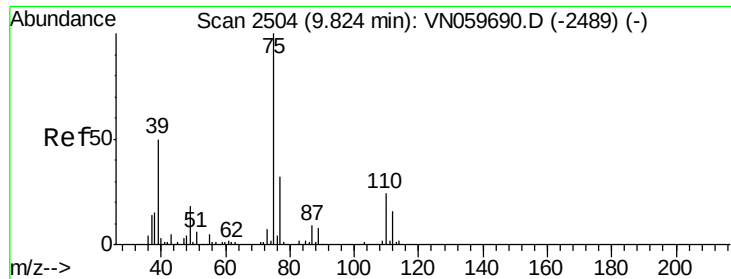
43 100

58 30.9 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.740 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#12

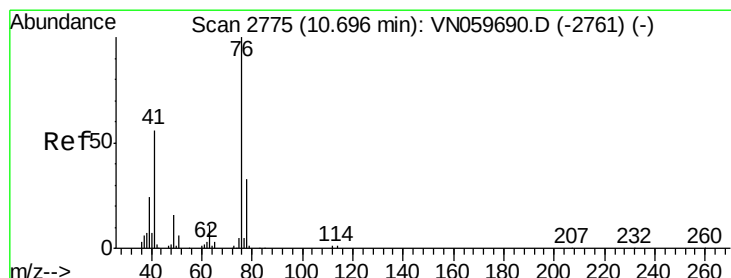
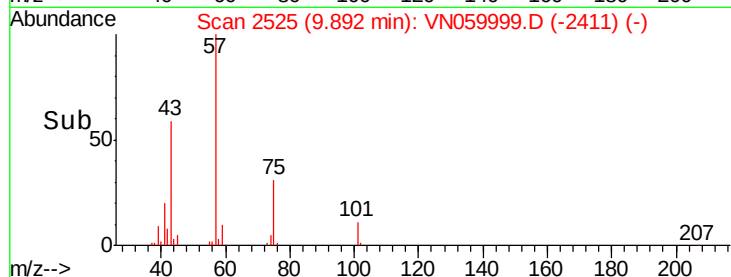
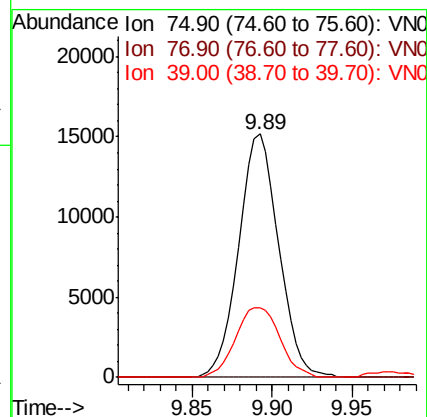
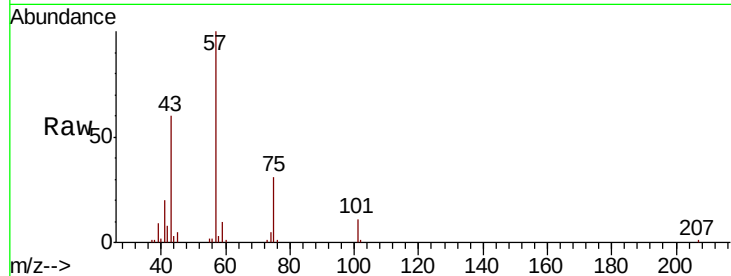
Tot Ion: 75 Resp: 25811

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 28.4 46.1 69.1#



#57

1,3-Dichloropropane

Concen: 1.382 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059999.D

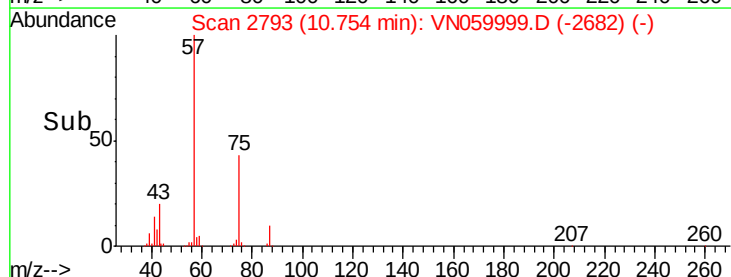
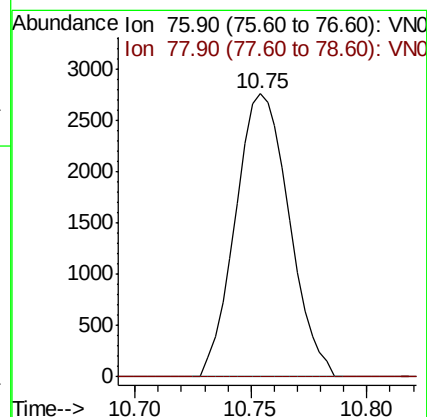
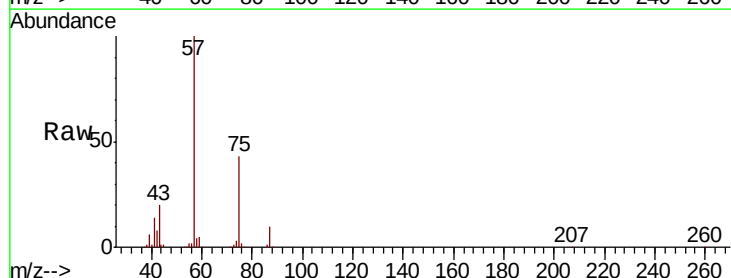
Acq: 4 Feb 2020 17:04

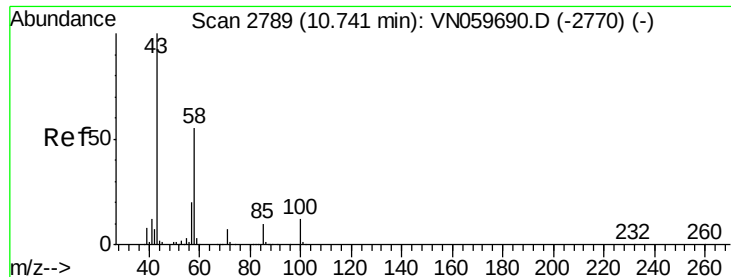
Tgt Ion: 76 Resp: 4430

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

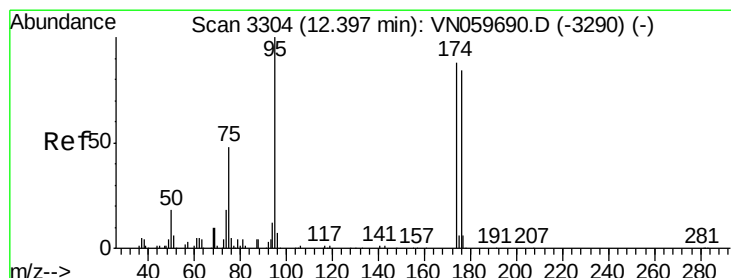
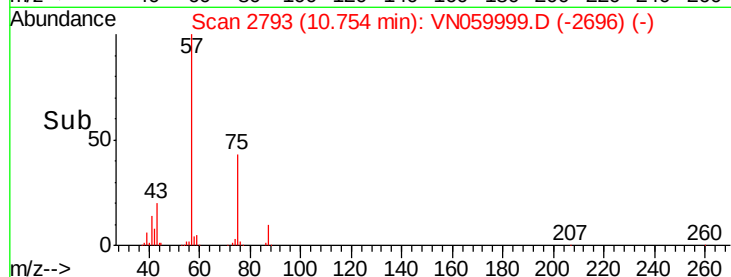
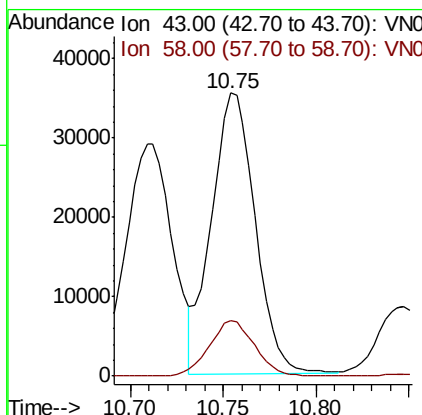
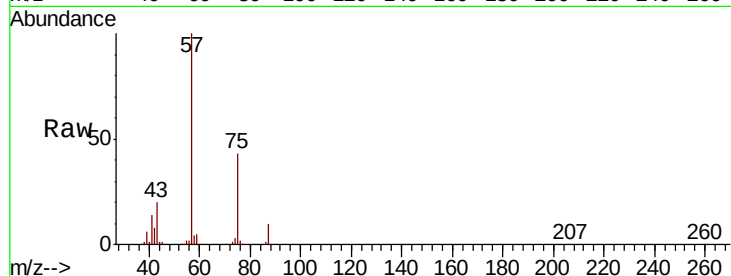




#59
2-Hexanone
Concen: 31.252 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

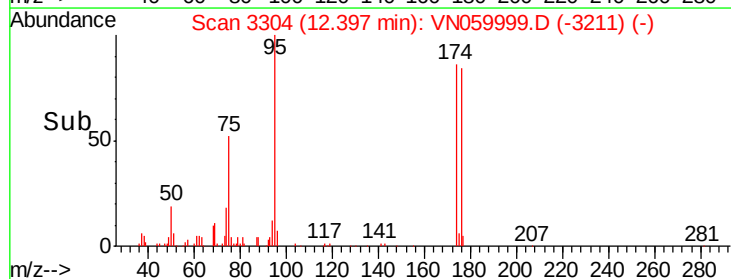
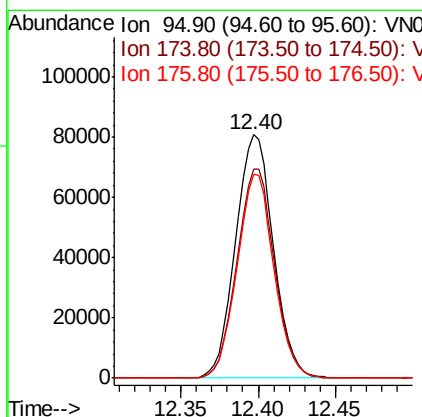
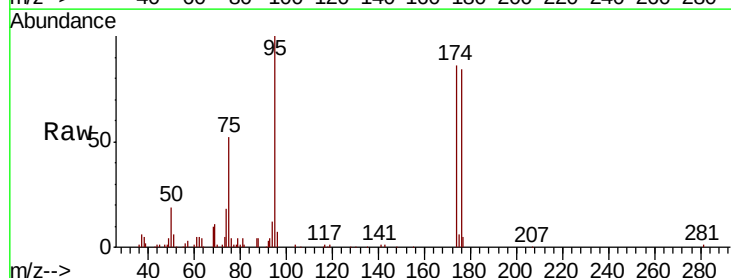
Instrument :
MSVOA_N
ClientSampleId :
PB126559ZHE#12

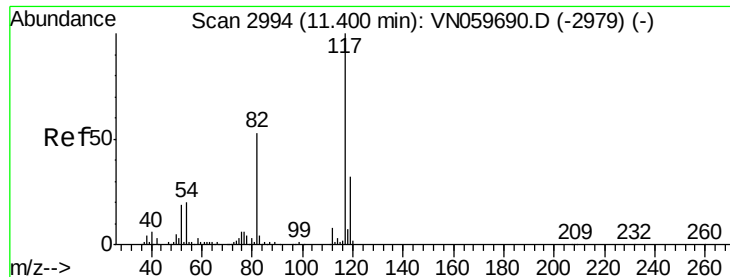
Tot Ion: 43 Resp: 58091
Ion Ratio Lower Upper
43 100
58 20.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 52.967 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059999.D
Acq: 4 Feb 2020 17:04

Tgt Ion: 95 Resp: 137072
Ion Ratio Lower Upper
95 100
174 85.6 0.0 151.4
176 82.1 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#12

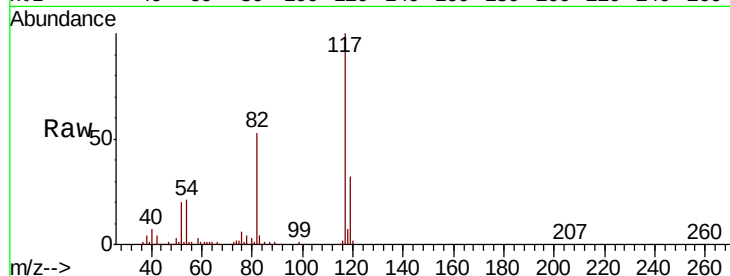
Tot Ion:117 Resp: 292641

Ion Ratio Lower Upper

117 100

82 53.3 45.9 68.9

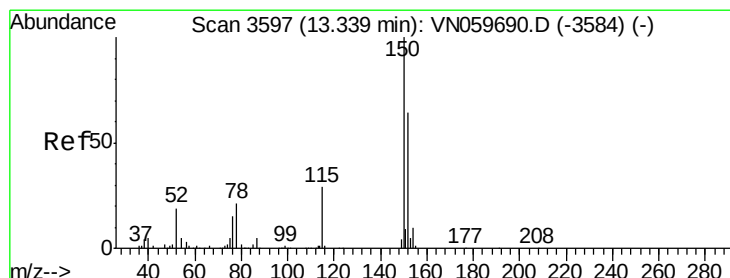
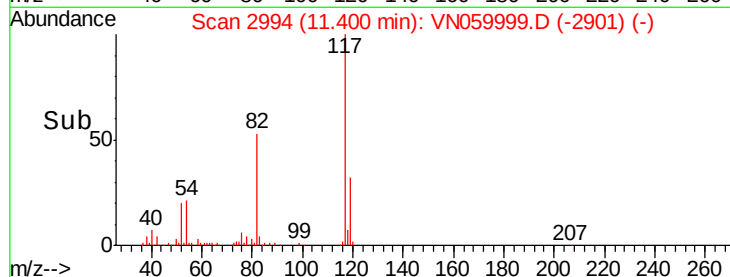
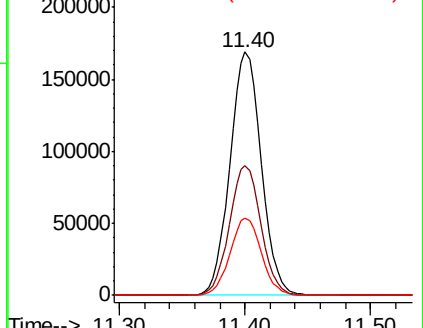
119 31.9 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

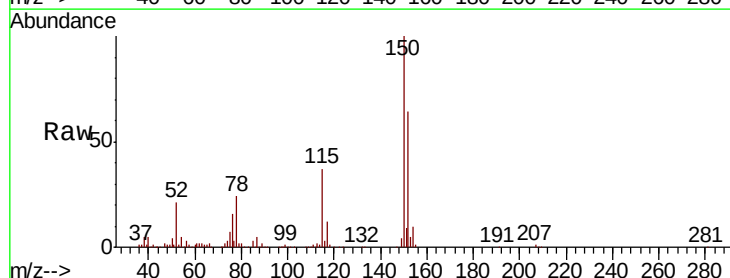
Tgt Ion:152 Resp: 133229

Ion Ratio Lower Upper

152 100

115 57.2 30.3 90.9

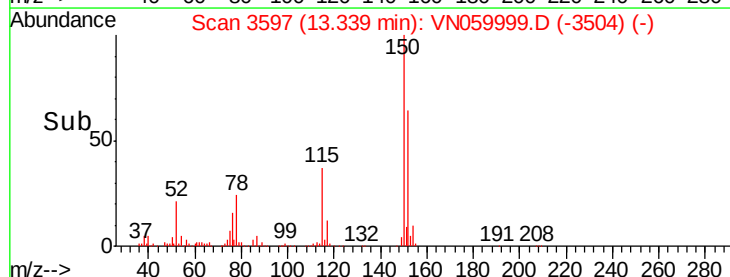
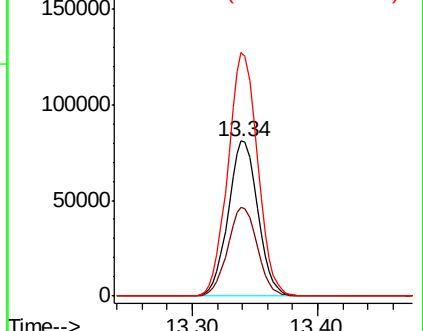
150 156.8 0.0 345.2

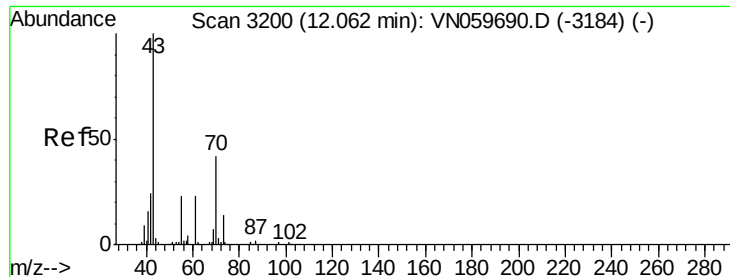


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.779 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

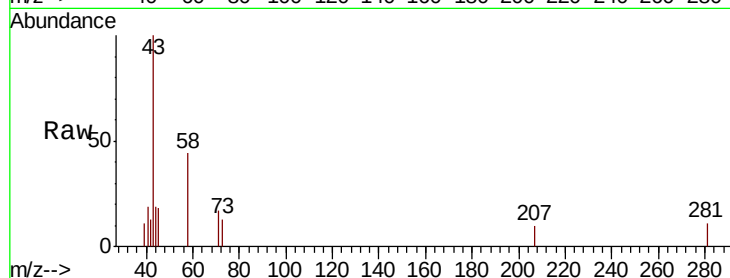
MSVOA_N

ClientSampleId :

PB126559ZHE#12

Tot Ion: 43 Resp: 2953

Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	2.2	19.8	29.6#
61	0.0	18.3	27.5#



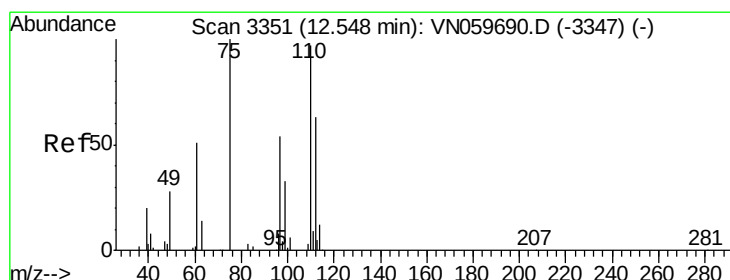
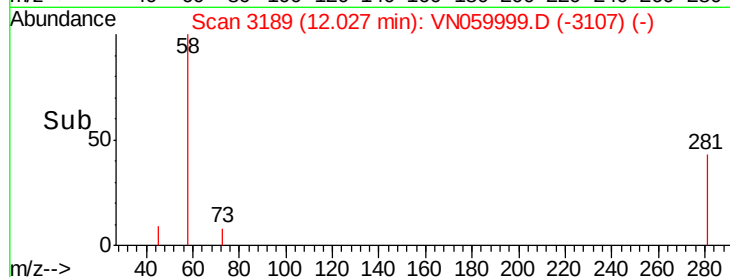
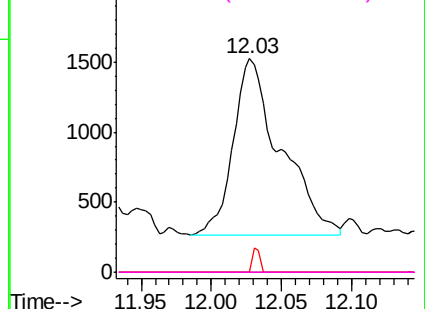
Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 31.254 ug/l

RT: 12.40 min Scan# 3304

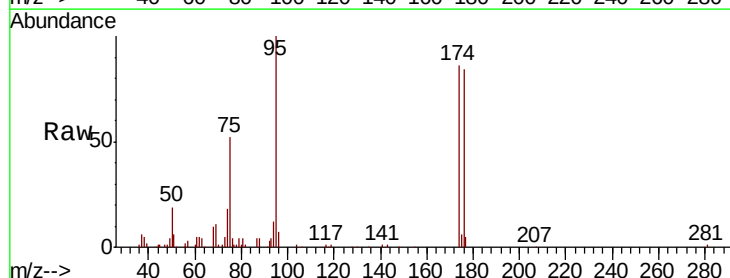
Delta R.T. -0.15 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Tgt Ion: 75 Resp: 70076

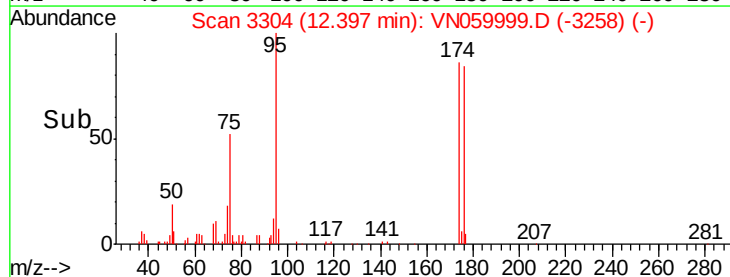
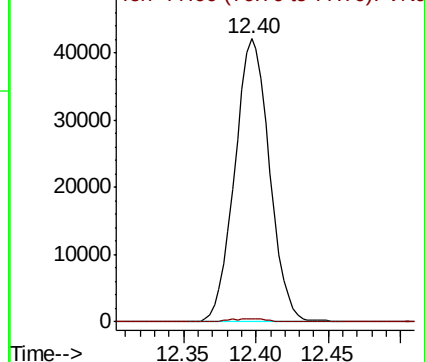
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#

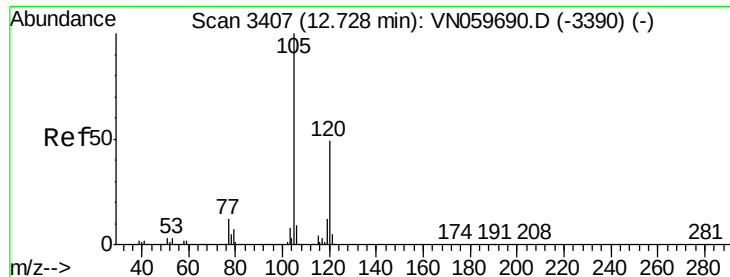


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.240 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

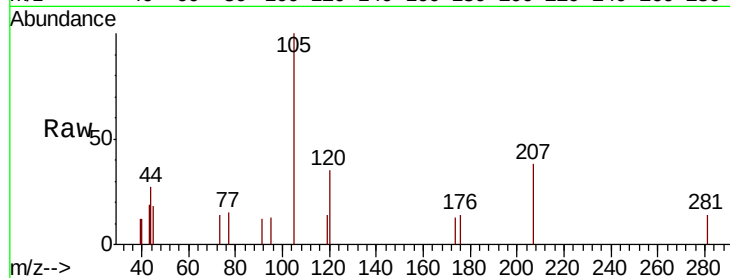
PB126559ZHE#12

Tot Ion:105 Resp: 1976

Ion Ratio Lower Upper

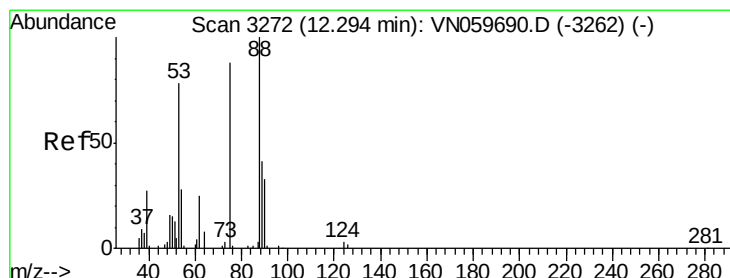
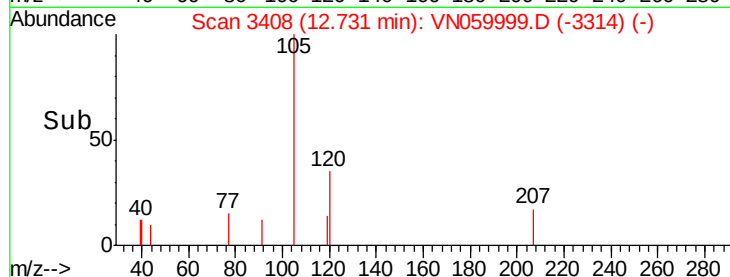
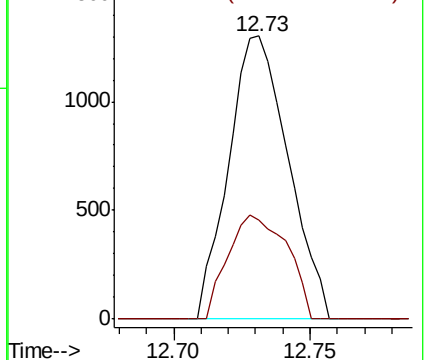
105 100

120 36.6 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.119 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

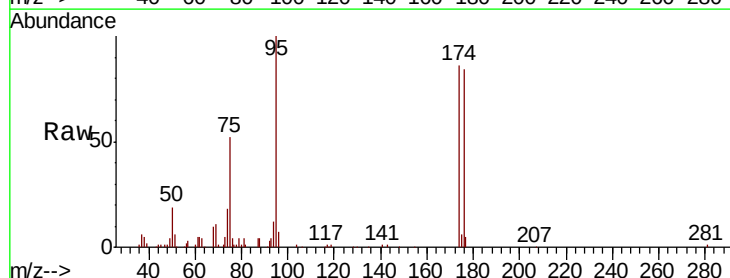
Tgt Ion: 75 Resp: 70076

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

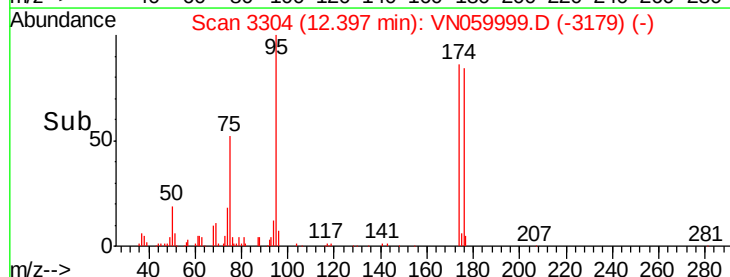
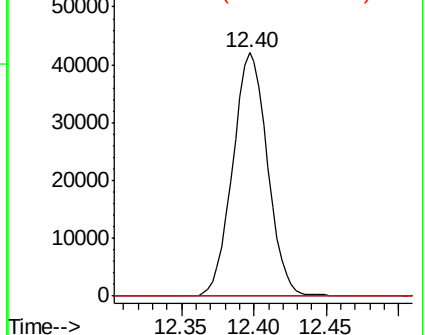
89 0.0 35.4 53.2#

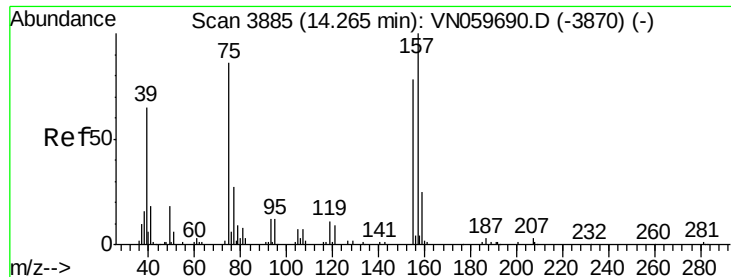


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN059999.D

Acq: 4 Feb 2020 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#12

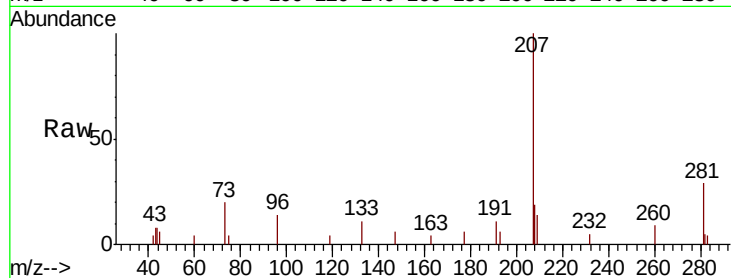
Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

