

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060480.D
 Acq On : 12 Mar 2020 15:33
 Operator : JC/MD
 Sample : PB127465ZHE#02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#02

Quant Time: Mar 13 02:05:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	199597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330901	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142835	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	129348	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
35) Dibromofluoromethane	7.56	113	98349	64.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.06%	
50) Toluene-d8	10.08	98	407446	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
62) 4-Bromofluorobenzene	12.40	95	154004	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	

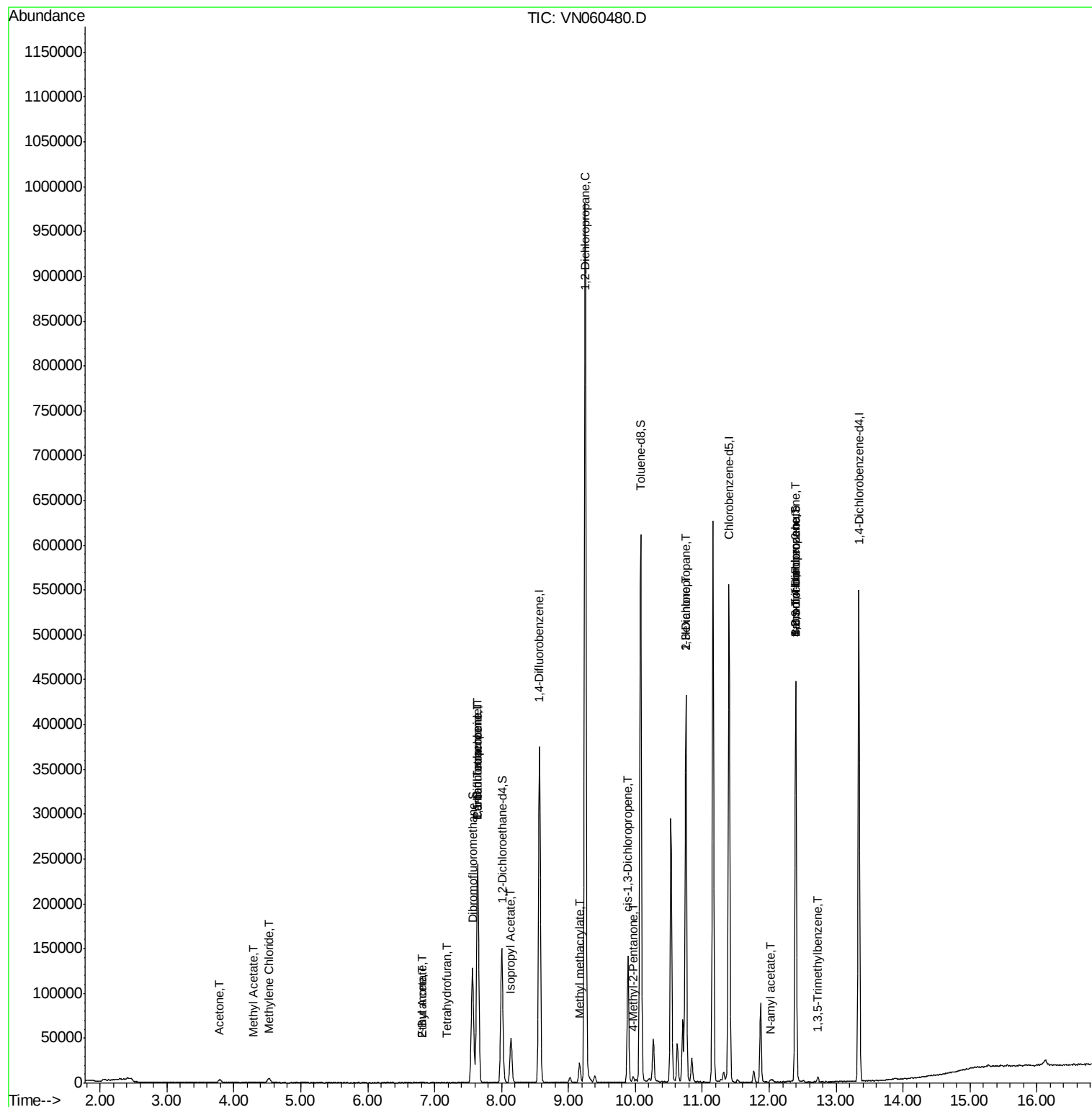
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	6643	8.03	ug/l	95
18) Methyl Acetate	4.29	43	1640	0.59	ug/l #	59
20) Methylene Chloride	4.52	84	4013	1.77	ug/l	89
25) 2-Butanone	6.82	43	1234	0.92	ug/l #	49
29) Tetrahydrofuran	7.18	42	193	0.21	ug/l #	33
31) Cyclohexane	7.64	56	4111	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15158	4.81	ug/l #	50
37) Ethyl Acetate	6.82	43	1234	0.41	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19228	6.26	ug/l #	16
43) Isopropyl Acetate	8.14	43	59328	11.35	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1165	0.49	ug/l #	44
48) Methyl methacrylate	9.16	41	3159	1.33	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4761	1.61	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	24994	6.22	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4188	1.11	ug/l #	42
59) 2-Hexanone	10.75	43	62477	28.71	ug/l #	52
71) Bromoform	12.40	173	1136	0.67	ug/l #	1
74) N-amyl acetate	12.03	43	2417	0.52	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	79244	25.29	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3161	0.35	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	79244	69.80	ug/l #	8
95) Naphthalene	15.13	128	96	Below Cal	#	69

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

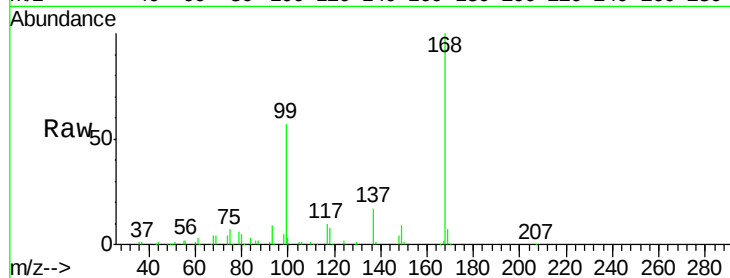
PB127465ZHE#02

Tgt Ion:168 Resp: 199597

Ion Ratio Lower Upper

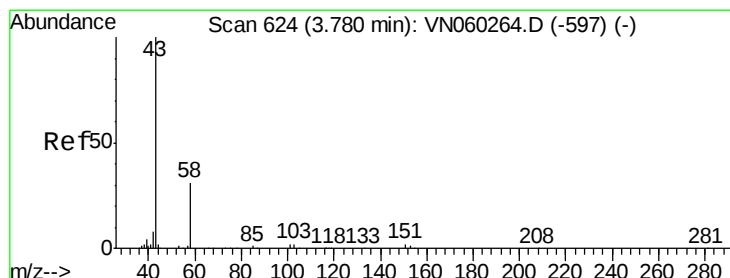
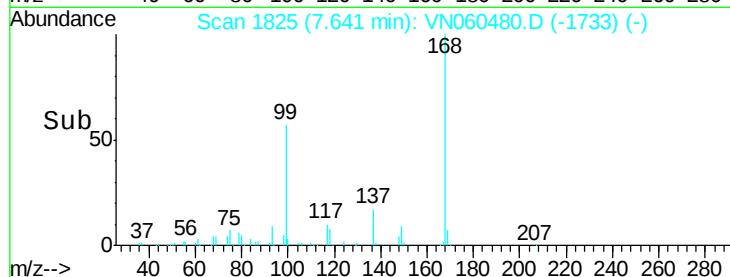
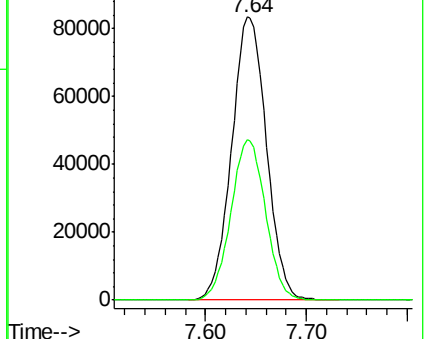
168 100

99 56.7 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.03 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060480.D

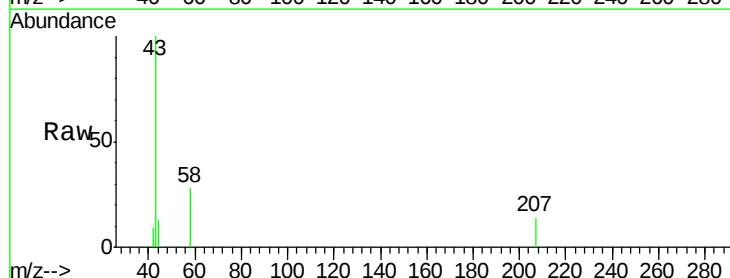
Acq: 12 Mar 2020 15:33

Tgt Ion: 43 Resp: 6643

Ion Ratio Lower Upper

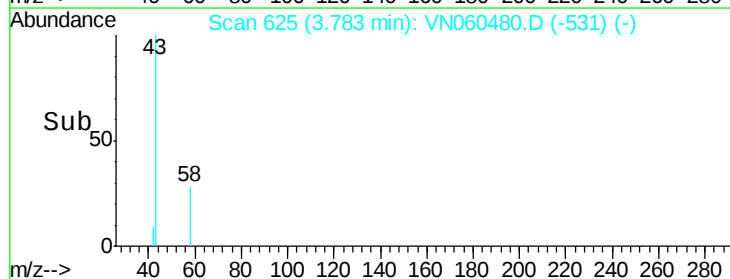
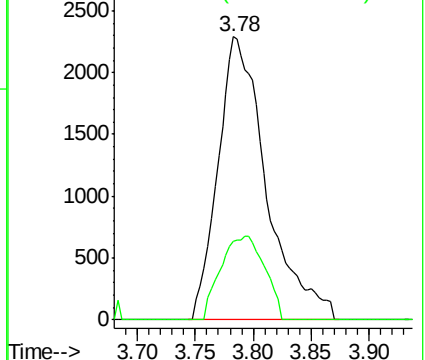
43 100

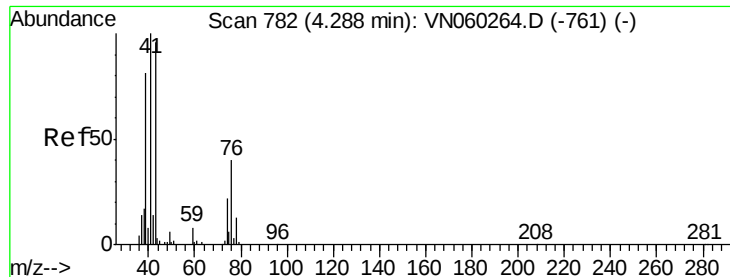
58 27.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

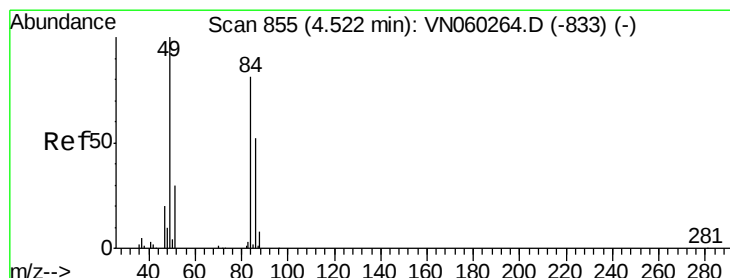
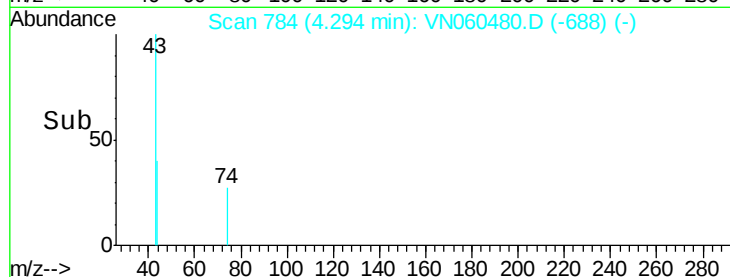
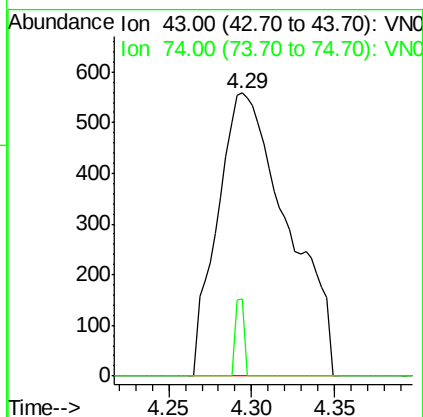
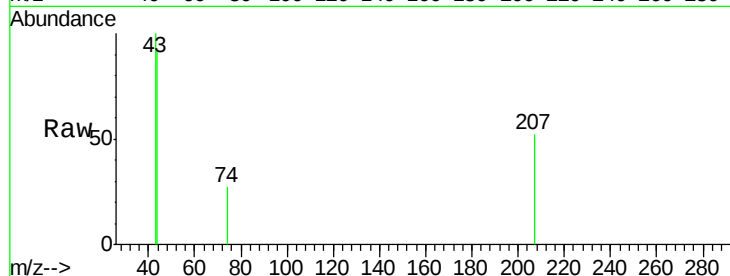




#18
Methyl Acetate
Concen: 0.59 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060480.D
Acq: 12 Mar 2020 15:33

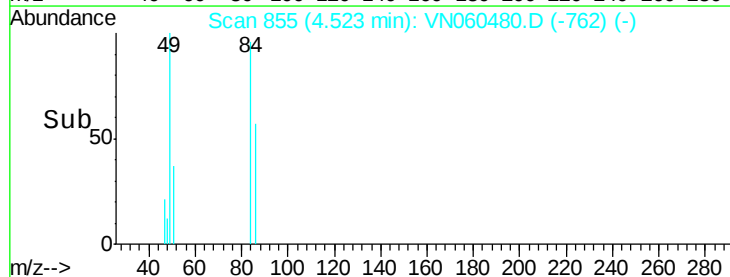
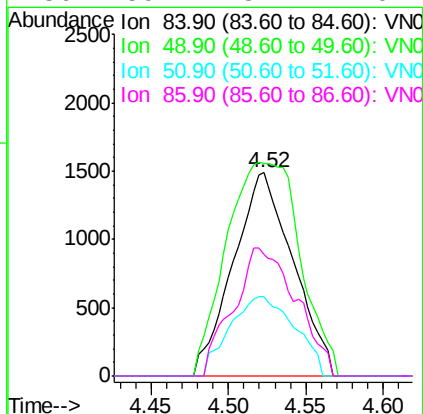
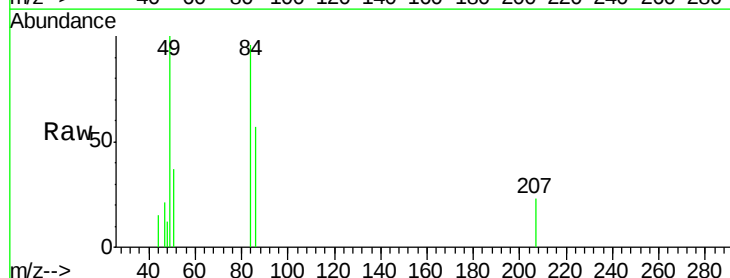
Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#02

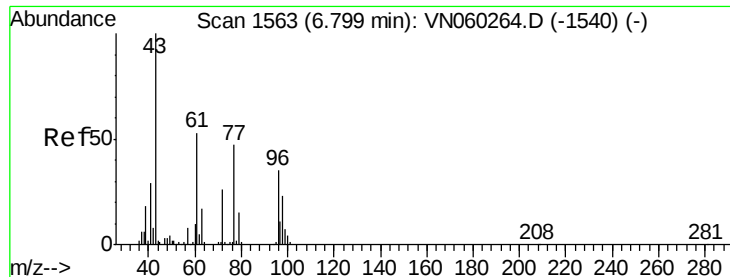
Tgt Ion: 43 Resp: 1640
Ion Ratio Lower Upper
43 100
74 3.6 18.8 28.2#



#20
Methylene Chloride
Concen: 1.77 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060480.D
Acq: 12 Mar 2020 15:33

Tgt Ion: 84 Resp: 4013
Ion Ratio Lower Upper
84 100
49 104.7 99.3 148.9
51 39.1 30.1 45.1
86 59.7 51.1 76.7

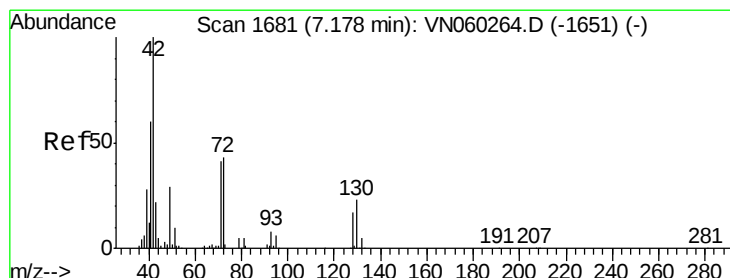
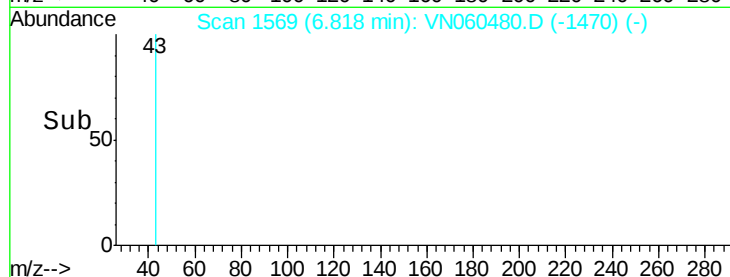
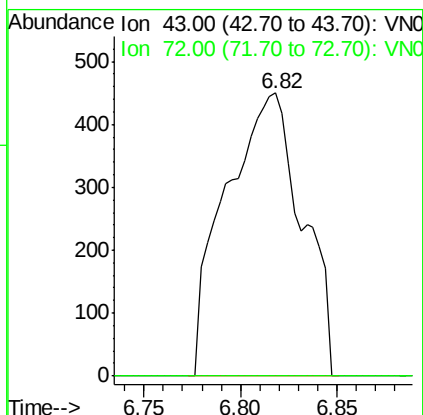
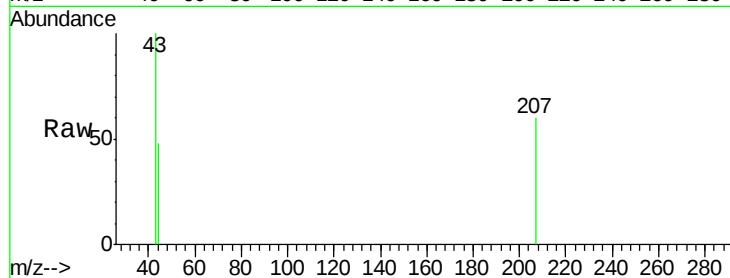




#25
 2-Butanone
 Concen: 0.92 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. 0.02 min
 Lab File: VN060480.D
 Acq: 12 Mar 2020 15:33

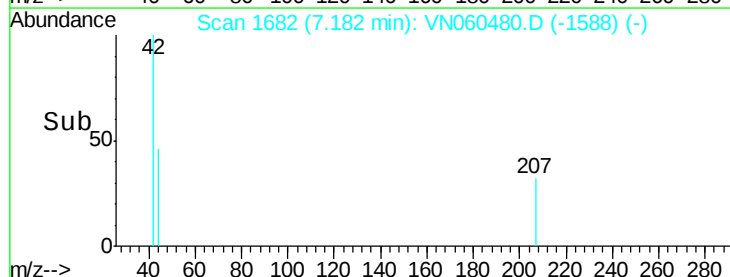
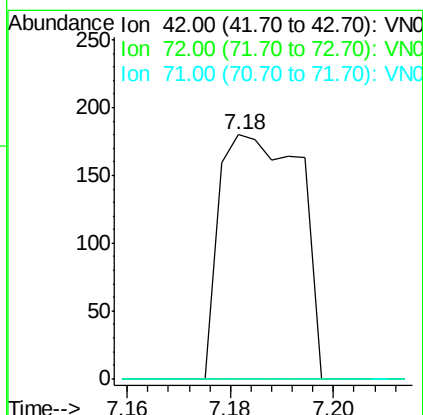
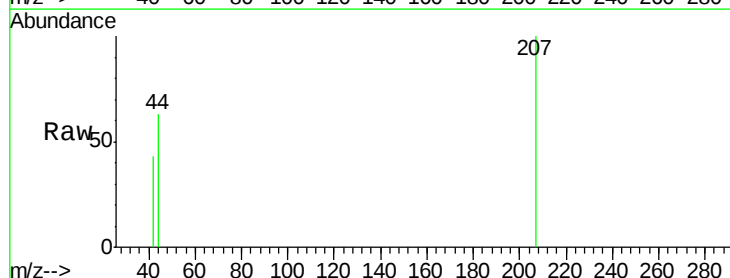
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#02

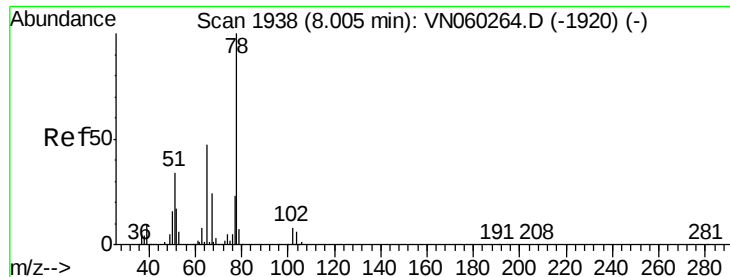
Tgt Ion: 43 Resp: 1234
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#29
 Tetrahydrofuran
 Concen: 0.21 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.00 min
 Lab File: VN060480.D
 Acq: 12 Mar 2020 15:33

Tgt Ion: 42 Resp: 193
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.6 52.0#
 71 0.0 32.9 49.3#





#33

1,2-Dichloroethane-d4

Concen: 50.51 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

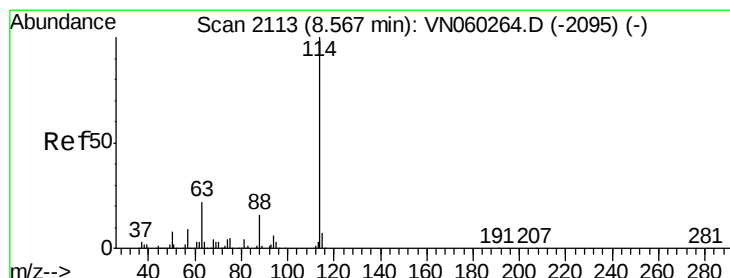
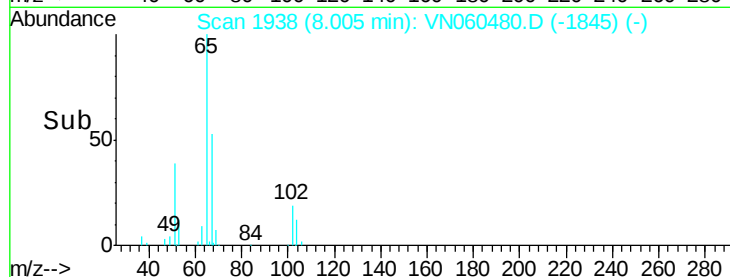
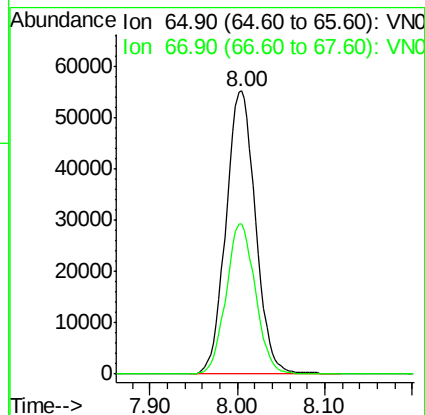
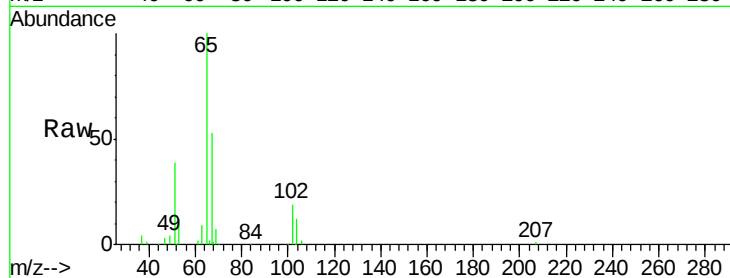
PB127465ZHE#02

Tgt Ion: 65 Resp: 129348

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

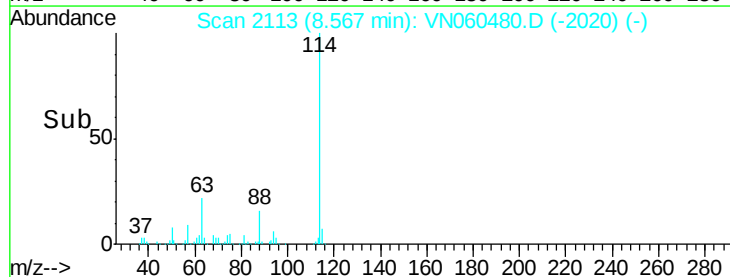
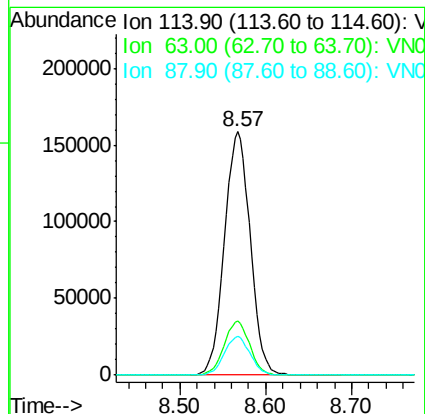
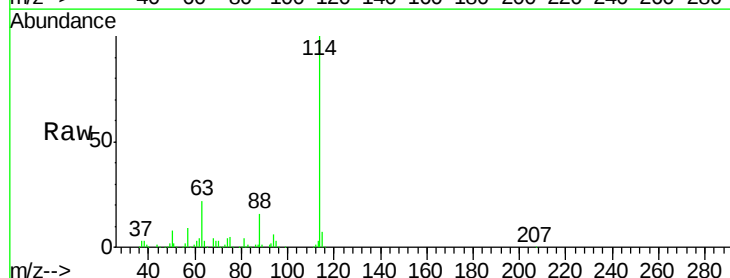
Tgt Ion: 114 Resp: 330901

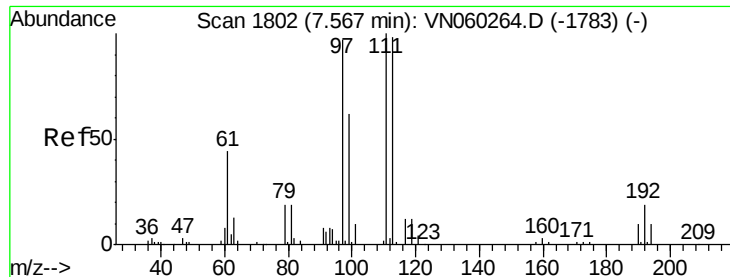
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 64.03 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#02

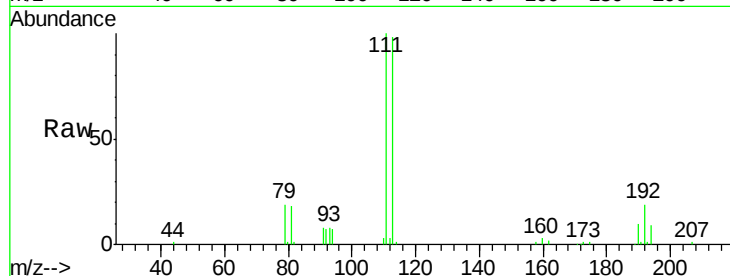
Tgt Ion:113 Resp: 98349

Ion Ratio Lower Upper

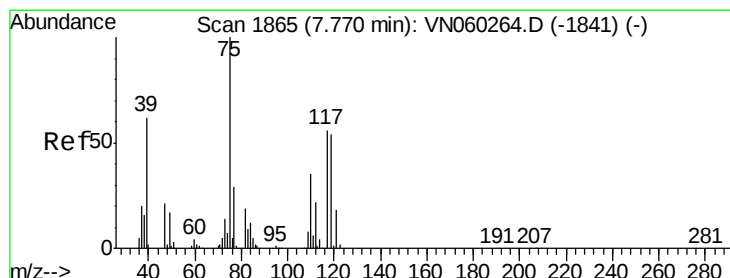
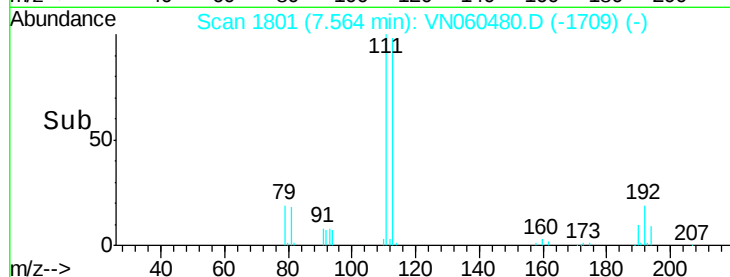
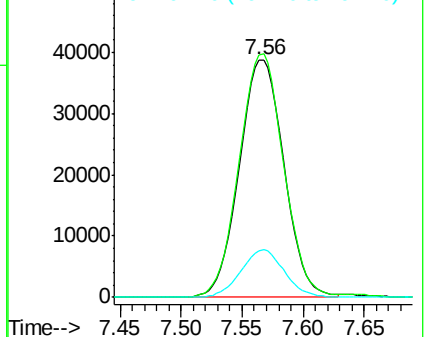
113 100

111 102.1 82.4 123.6

192 19.5 16.2 24.2



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: 4.81 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

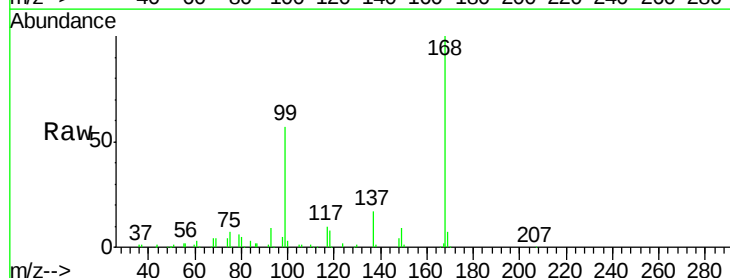
Tgt Ion: 75 Resp: 15158

Ion Ratio Lower Upper

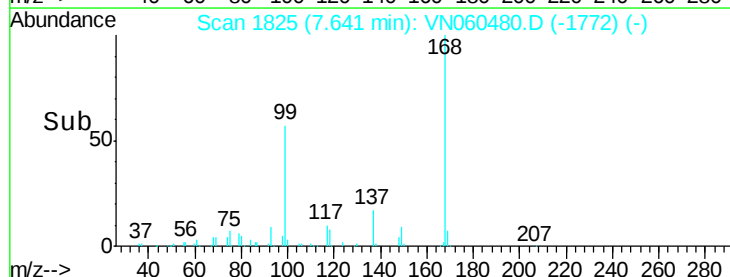
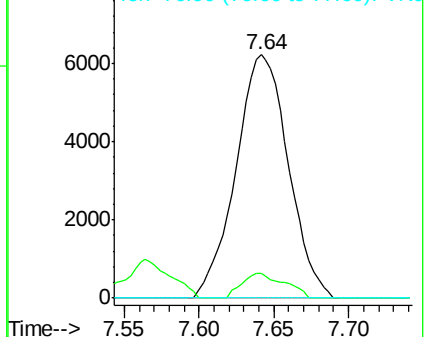
75 100

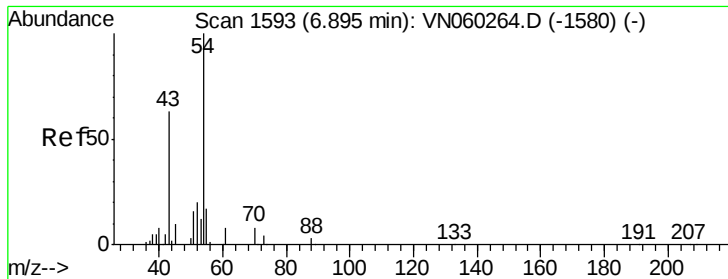
110 8.3 17.3 52.0#

77 0.0 24.2 36.2#



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





#37

Ethyl Acetate

Concen: 0.41 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.08 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02

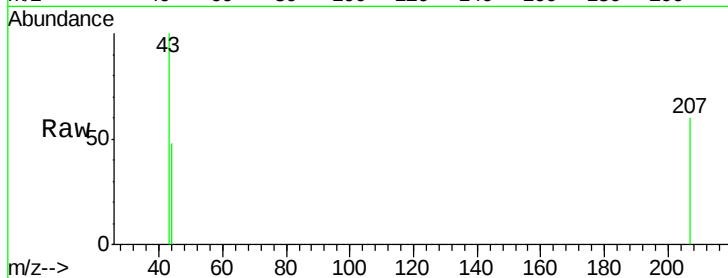
Tgt Ion: 43 Resp: 1234

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

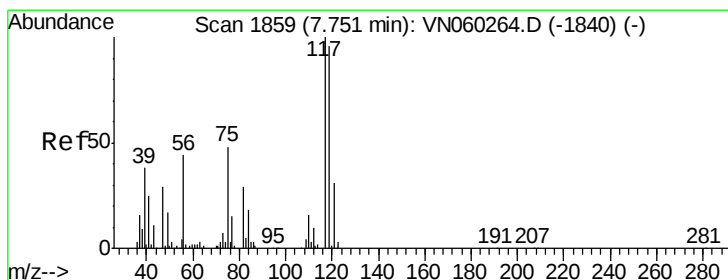
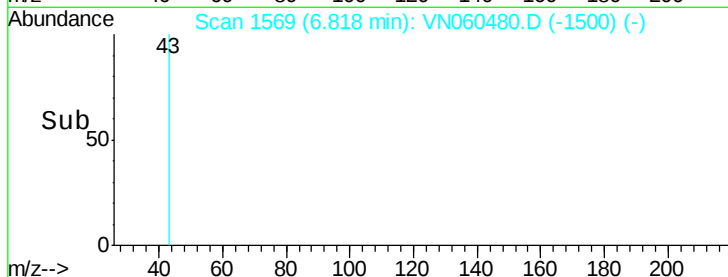
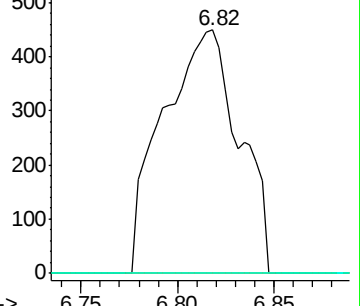
70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060480.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060480.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060480.D (-1500) (-)



#38

Carbon Tetrachloride

Concen: 6.26 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

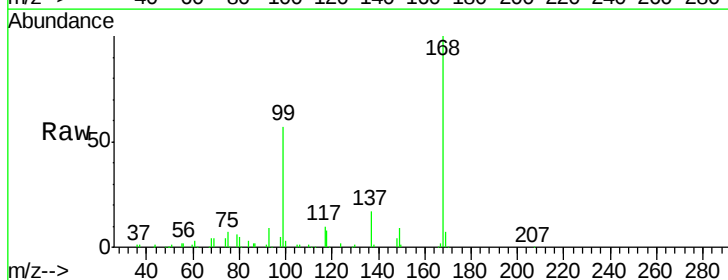
Tgt Ion: 117 Resp: 19228

Ion Ratio Lower Upper

117 100

119 4.9 76.7 115.1#

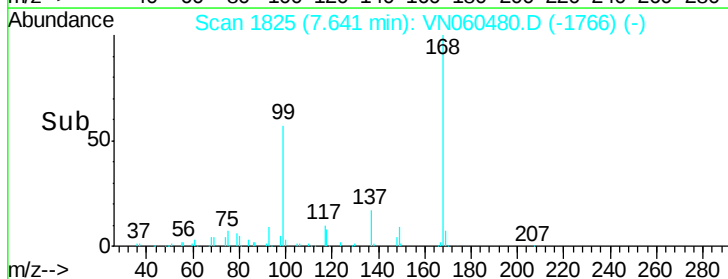
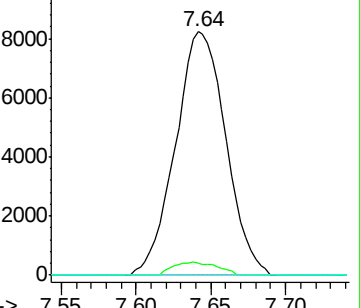
121 0.0 24.5 36.7#

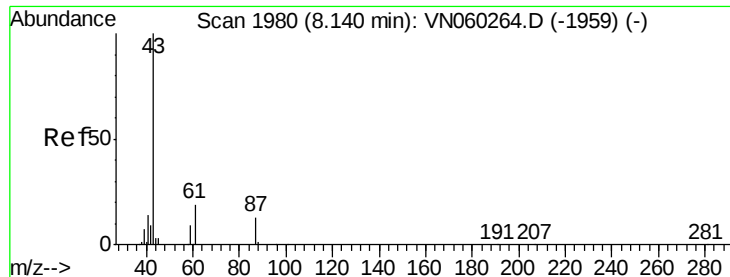


Abundance Ion 116.80 (116.50 to 117.50): VN060480.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060480.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060480.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 11.35 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02

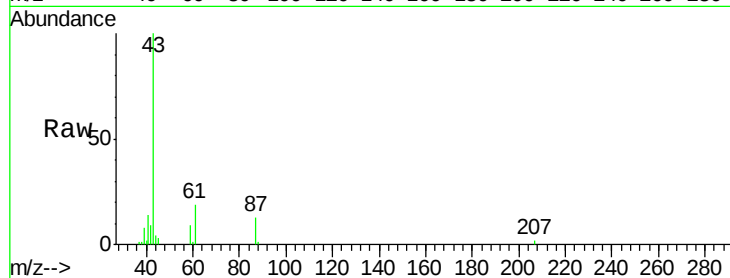
Tgt Ion: 43 Resp: 59328

Ion Ratio Lower Upper

43 100

61 19.2 20.9 31.3#

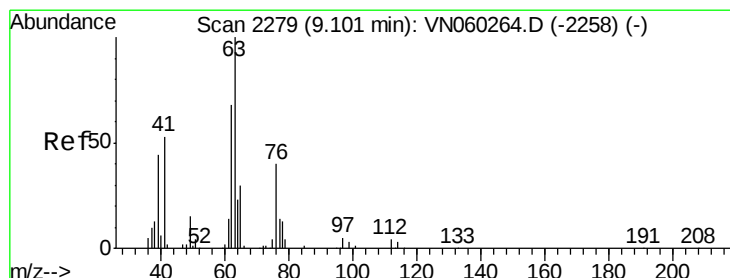
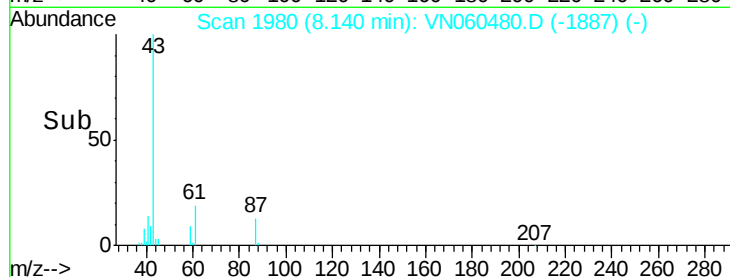
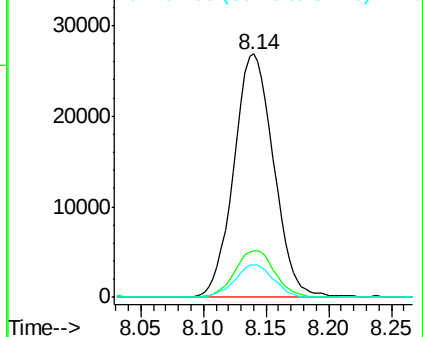
87 12.9 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060480.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060480.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060480.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.49 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060480.D

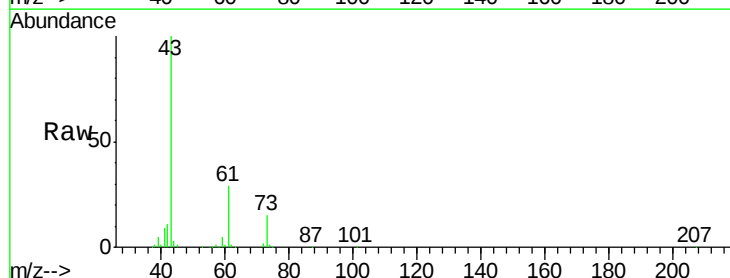
Acq: 12 Mar 2020 15:33

Tgt Ion: 63 Resp: 1165

Ion Ratio Lower Upper

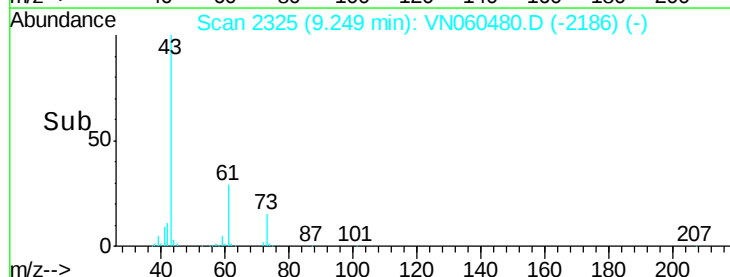
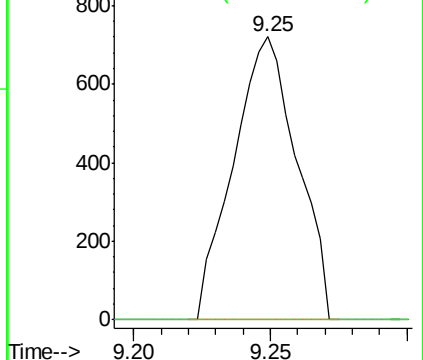
63 100

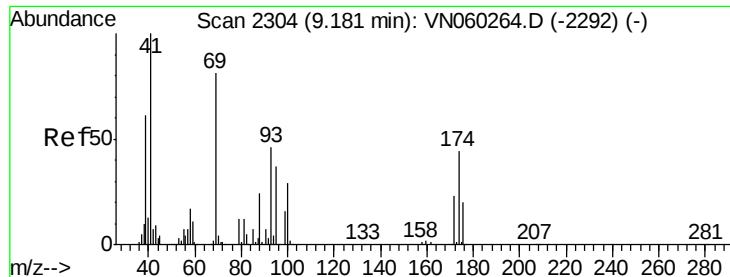
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060480.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060480.D (-2186) (-)

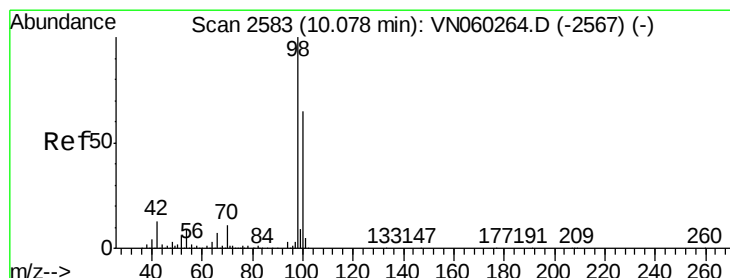
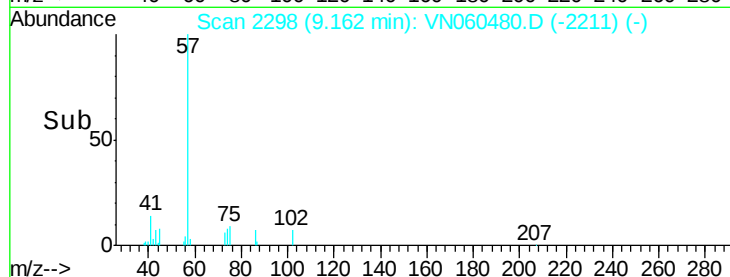
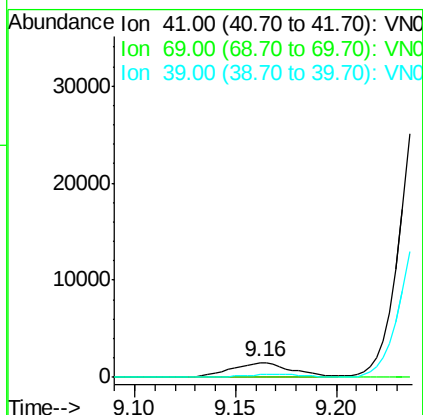
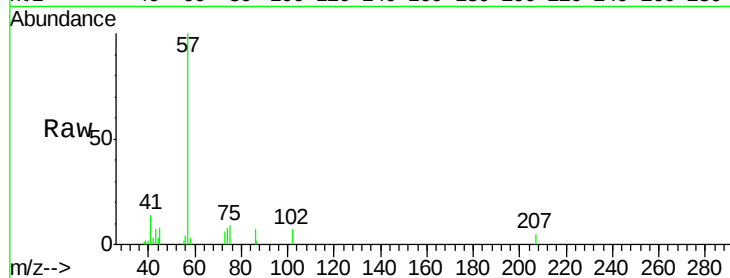




#48
Methyl methacrylate
Concen: 1.33 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060480.D
Acq: 12 Mar 2020 15:33

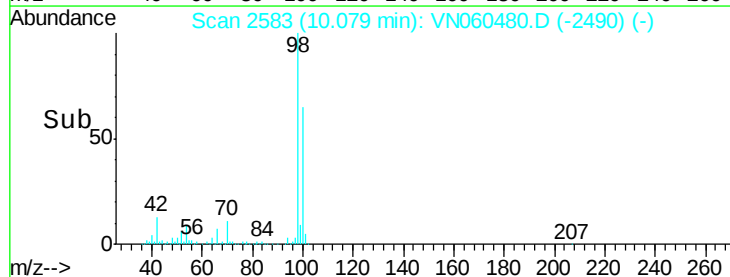
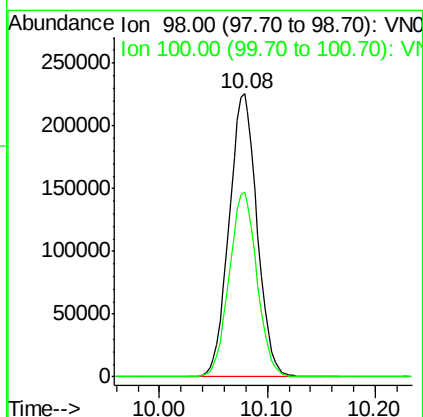
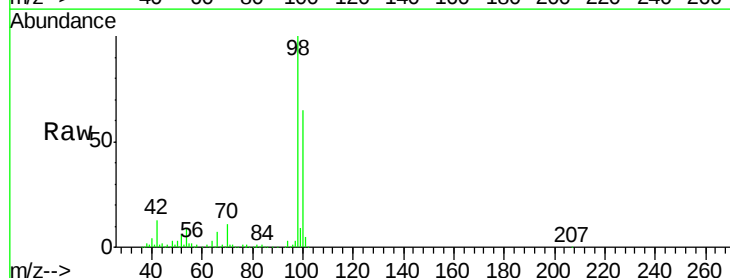
Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#02

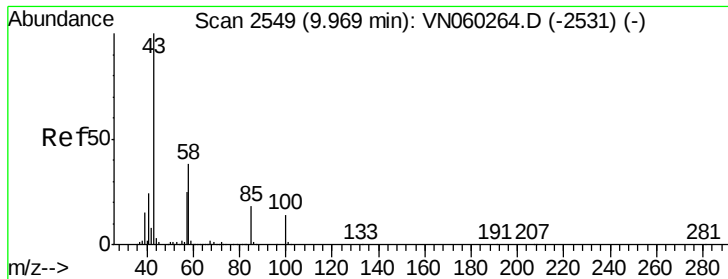
Tgt Ion: 41 Resp: 3159
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.41 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060480.D
Acq: 12 Mar 2020 15:33

Tgt Ion: 98 Resp: 407446
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.61 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

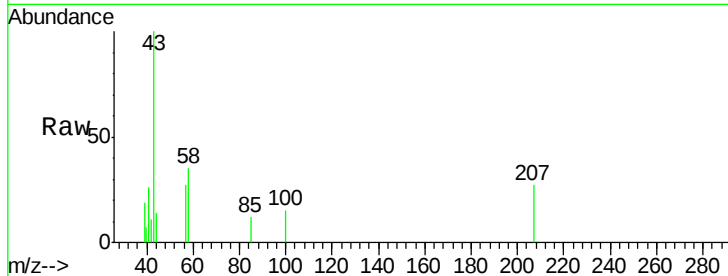
PB127465ZHE#02

Tgt Ion: 43 Resp: 4761

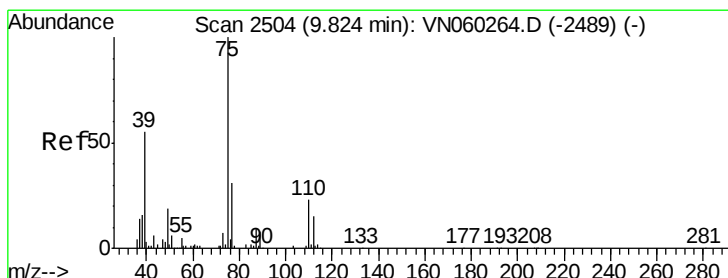
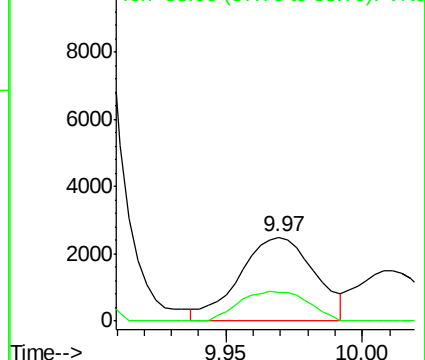
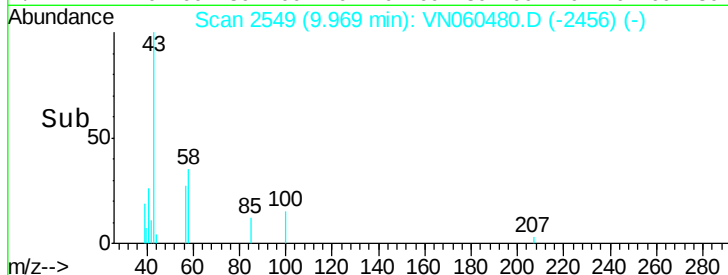
Ion Ratio Lower Upper

43 100

58 32.9 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060480.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.22 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

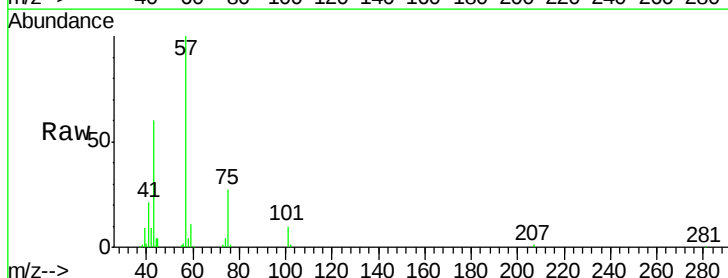
Tgt Ion: 75 Resp: 24994

Ion Ratio Lower Upper

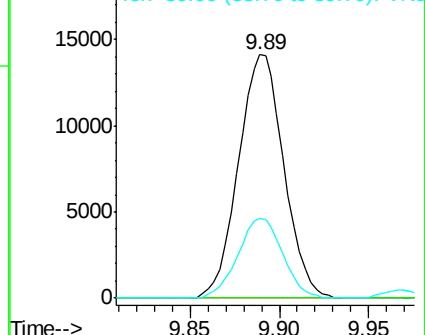
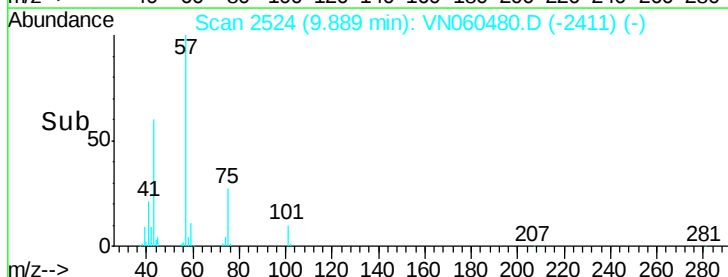
75 100

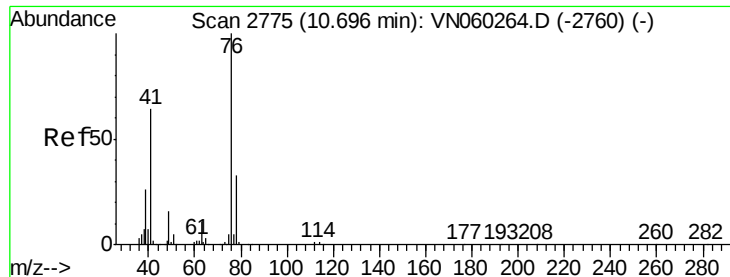
77 0.0 24.8 37.2#

39 32.7 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060480.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.11 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

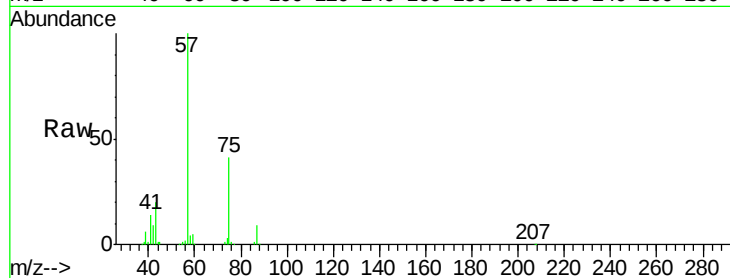
PB127465ZHE#02

Tgt Ion: 76 Resp: 4188

Ion Ratio Lower Upper

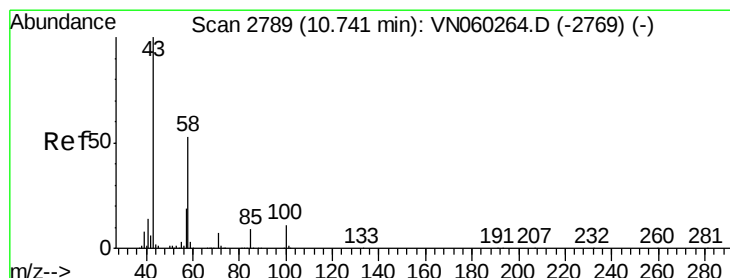
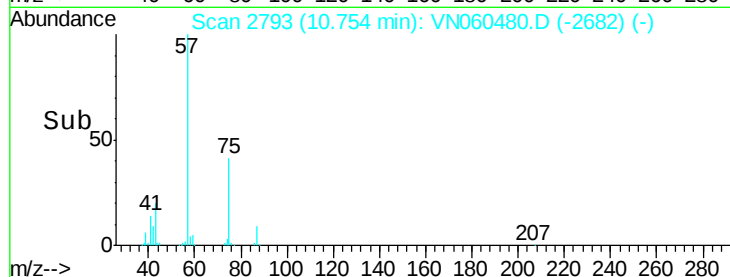
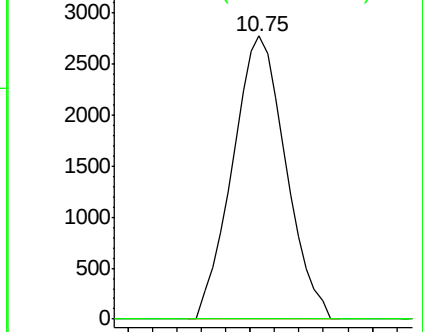
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 28.71 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060480.D

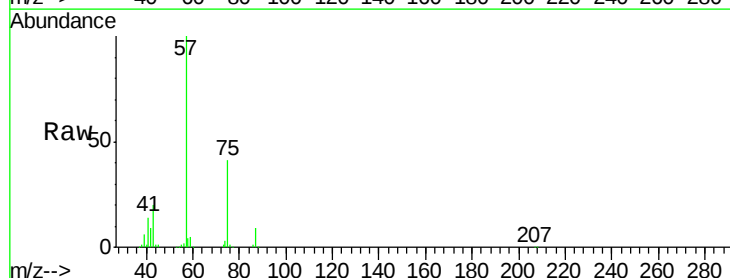
Acq: 12 Mar 2020 15:33

Tgt Ion: 43 Resp: 62477

Ion Ratio Lower Upper

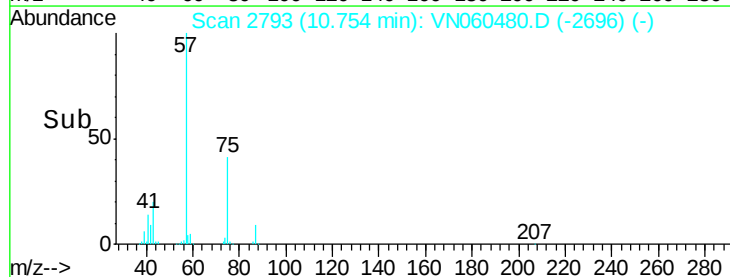
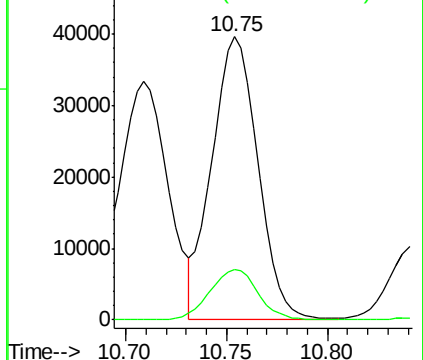
43 100

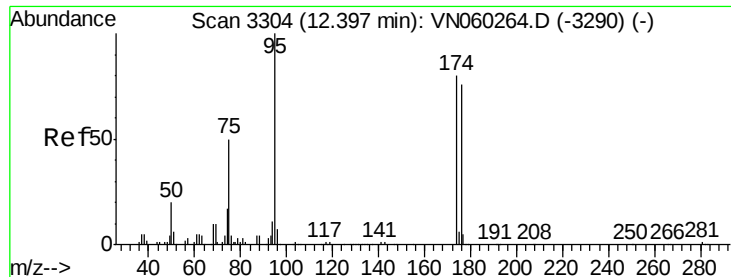
58 18.7 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.26 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02

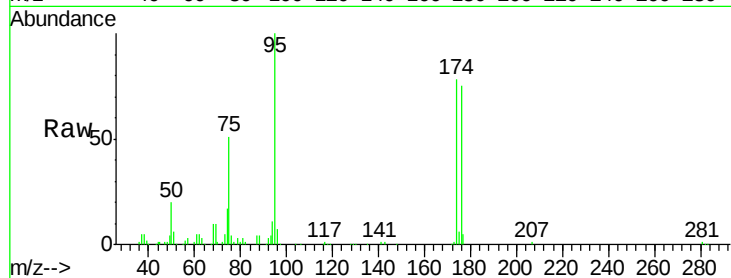
Tgt Ion: 95 Resp: 154004

Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.2

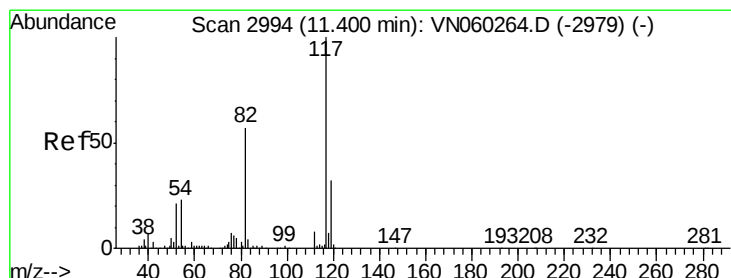
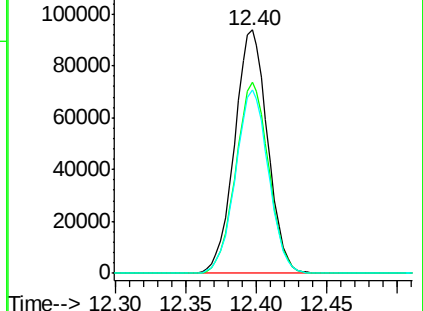
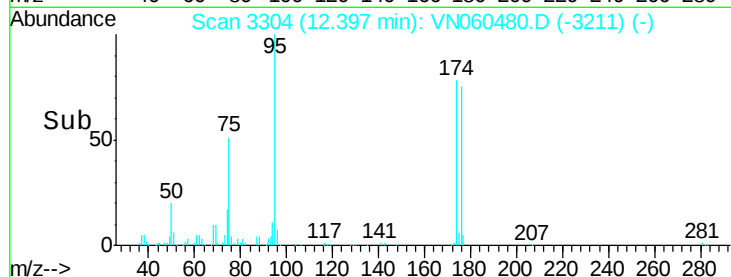
176 75.2 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060480.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060480.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060480.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

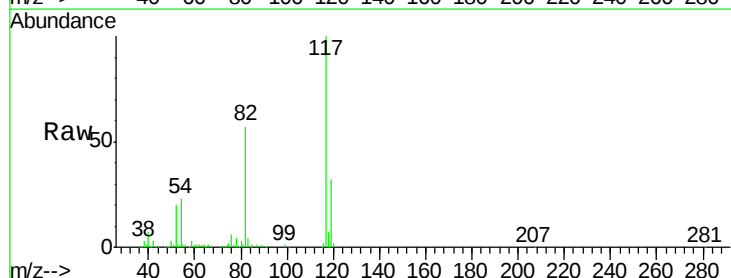
Tgt Ion: 117 Resp: 313281

Ion Ratio Lower Upper

117 100

82 56.6 45.8 68.6

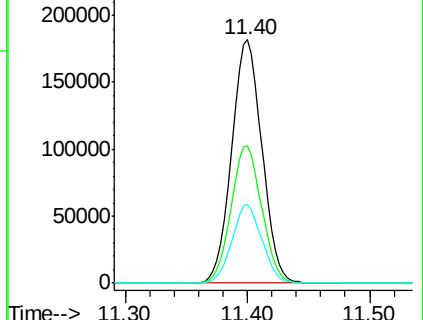
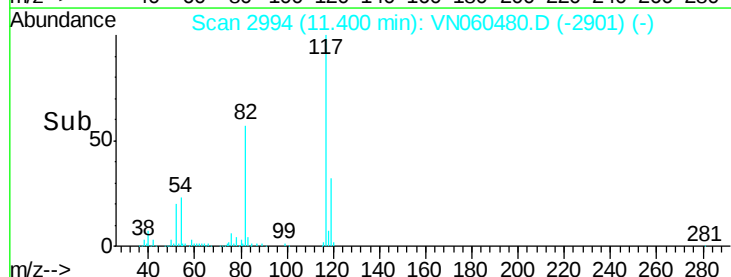
119 32.3 25.8 38.8

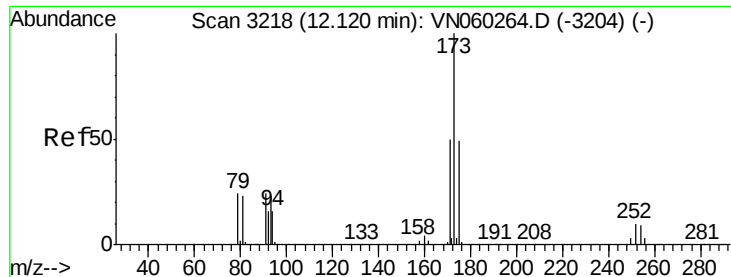


Abundance Ion 116.90 (116.60 to 117.60): VN060480.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060480.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060480.D (-2901) (-)





#71

Bromoform

Concen: 0.67 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02

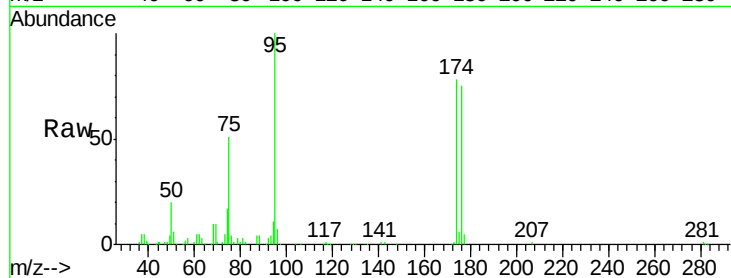
Tgt Ion:173 Resp: 1136

Ion Ratio Lower Upper

173 100

175 657.8 24.1 72.2#

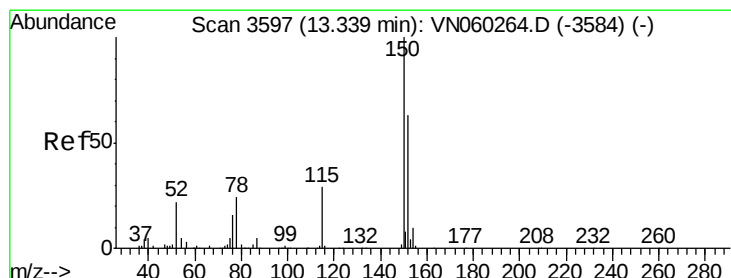
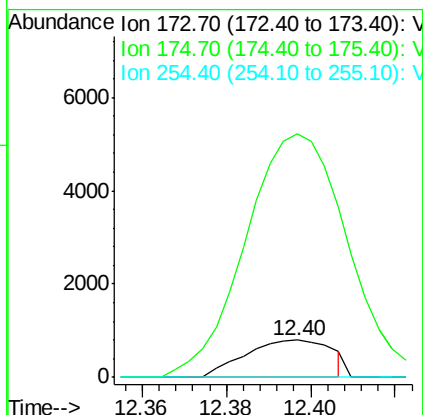
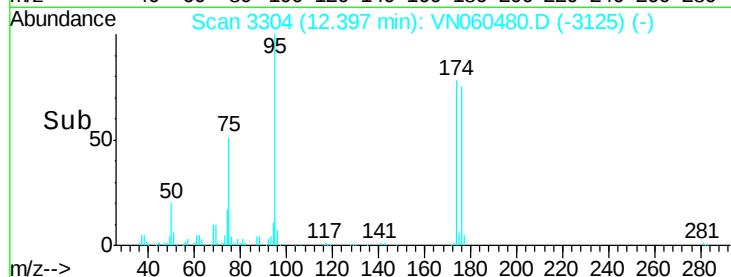
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

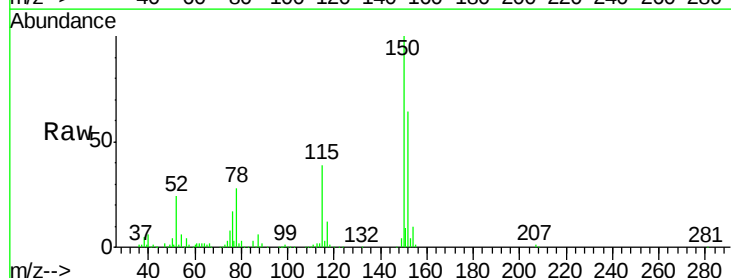
Tgt Ion:152 Resp: 142835

Ion Ratio Lower Upper

152 100

115 60.3 30.0 90.0

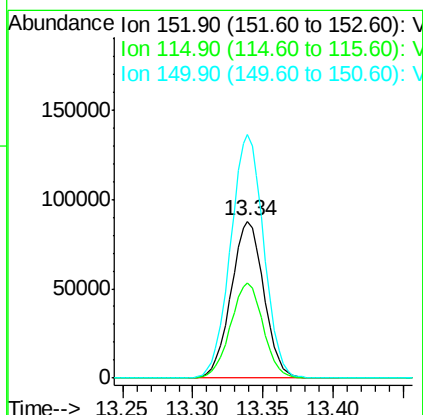
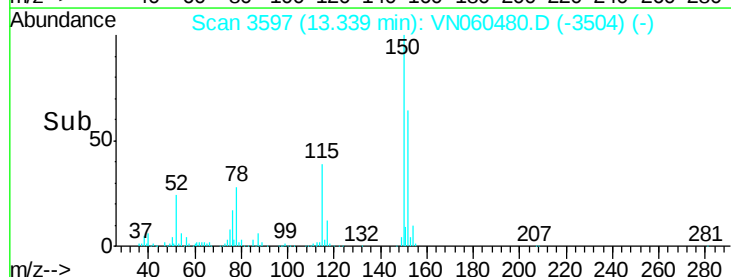
150 156.6 0.0 349.6

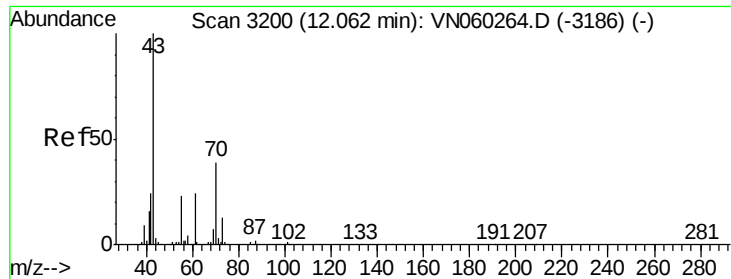


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.52 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060480.D

Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02

Tgt Ion: 43 Resp: 2417

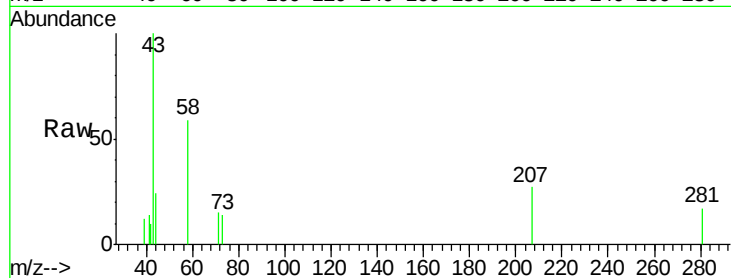
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

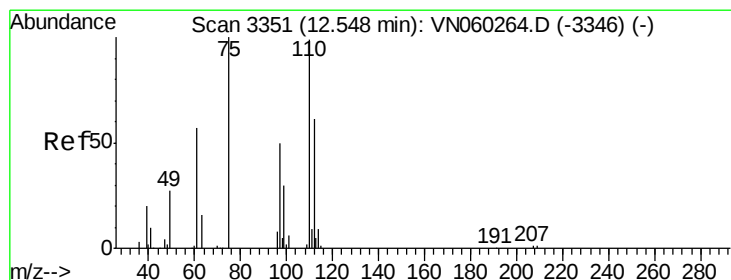
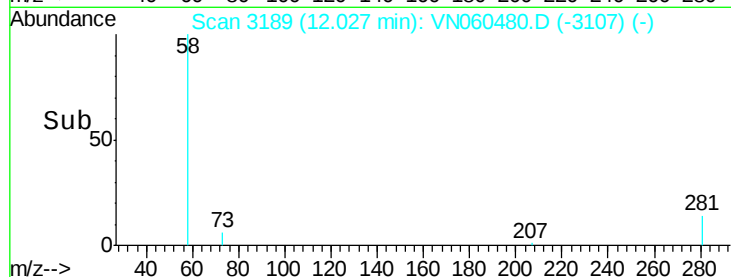
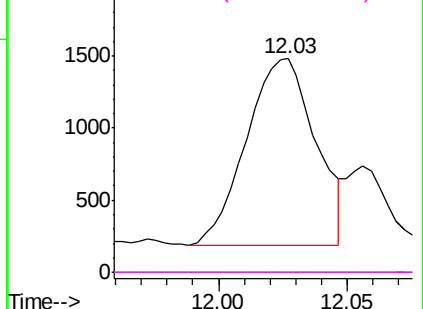


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.29 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060480.D

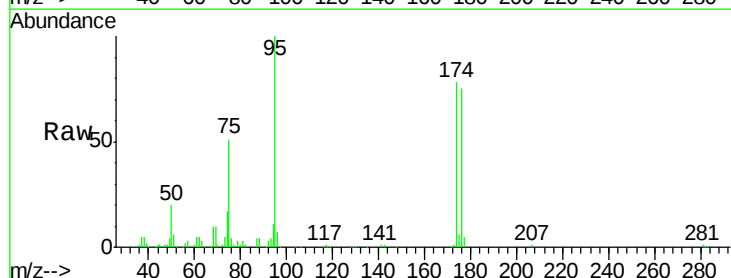
Acq: 12 Mar 2020 15:33

Tgt Ion: 75 Resp: 79244

Ion Ratio Lower Upper

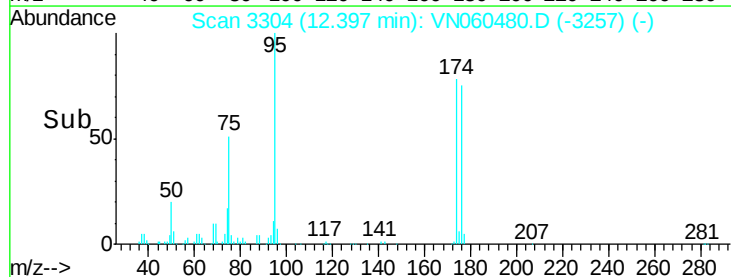
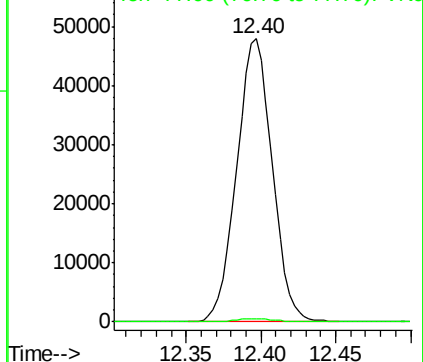
75 100

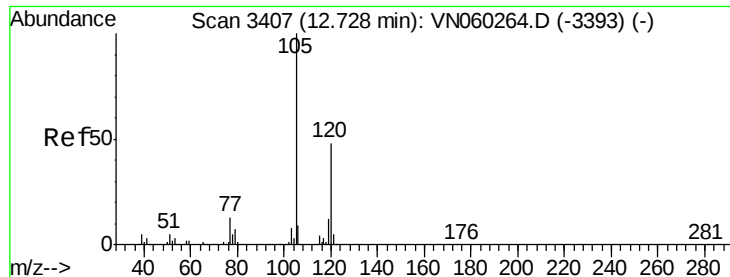
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

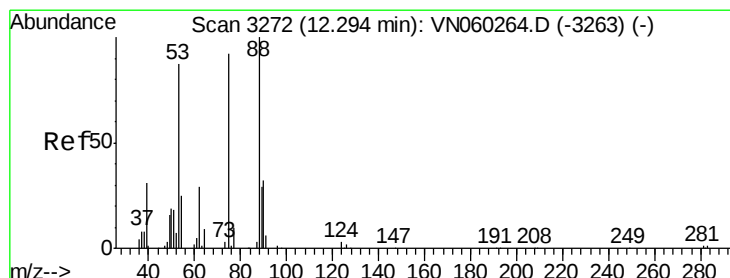
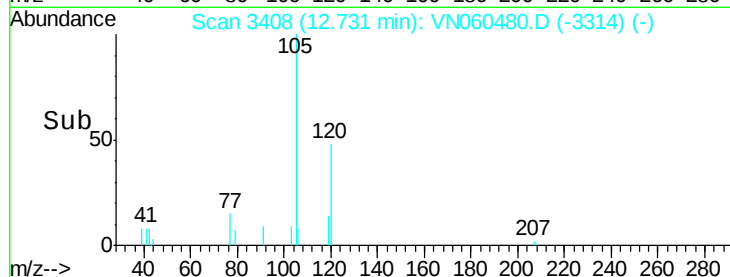
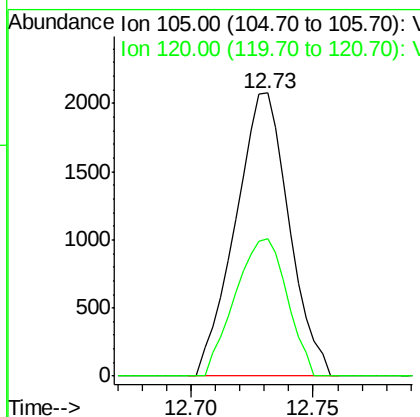
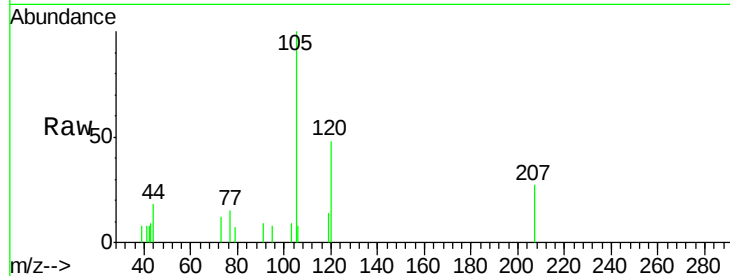




#80
 1,3,5-Trimethylbenzene
 Concen: 0.35 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN060480.D
 Acq: 12 Mar 2020 15:33

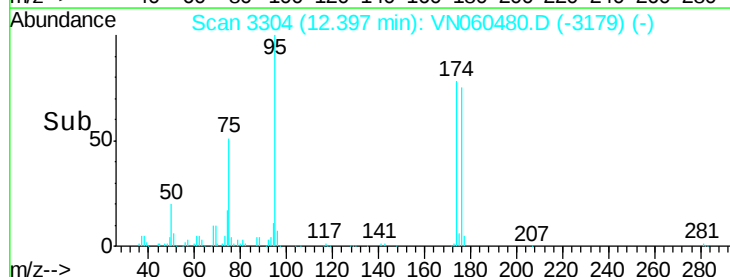
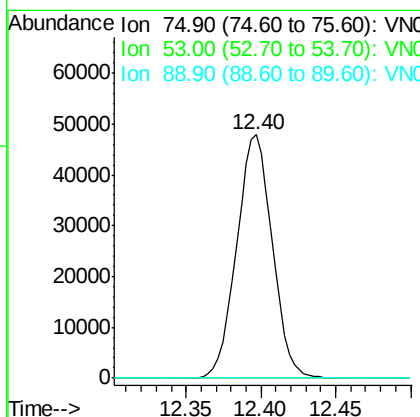
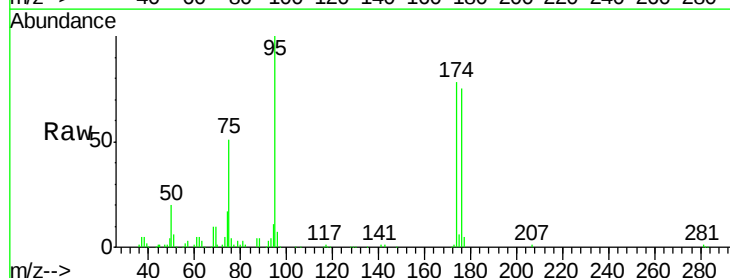
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#02

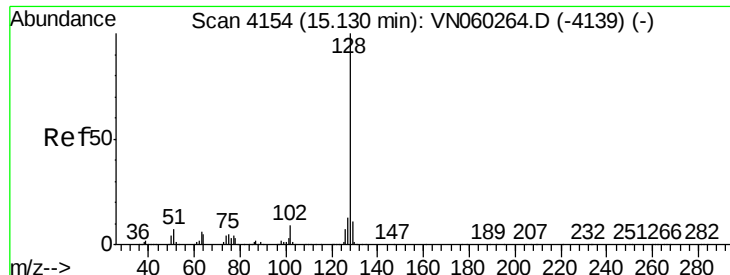
Tgt Ion: 105 Resp: 3161
 Ion Ratio Lower Upper
 105 100
 120 47.1 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.80 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060480.D
 Acq: 12 Mar 2020 15:33

Tgt Ion: 75 Resp: 79244
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 57.1 85.7#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060480.D

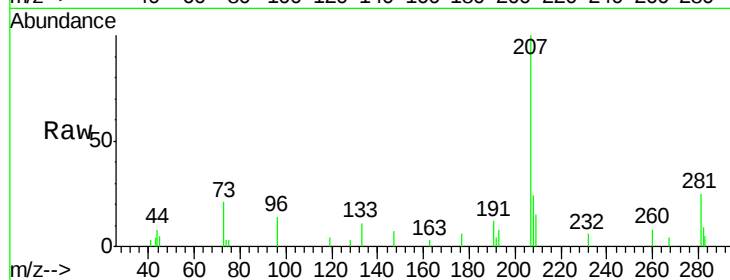
Acq: 12 Mar 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#02



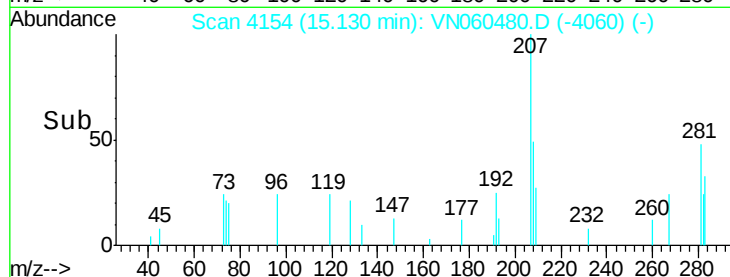
Tgt Ion:128 Resp: 96

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

