

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060617.D
 Acq On : 19 Mar 2020 1:51
 Operator : JC/MD
 Sample : PB127624ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127624ZHE#11

Quant Time: Mar 19 05:07:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	204349	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	339980	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143327	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	131385	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	7.56	113	100007	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
50) Toluene-d8	10.08	98	422437	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.40	95	157142	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	

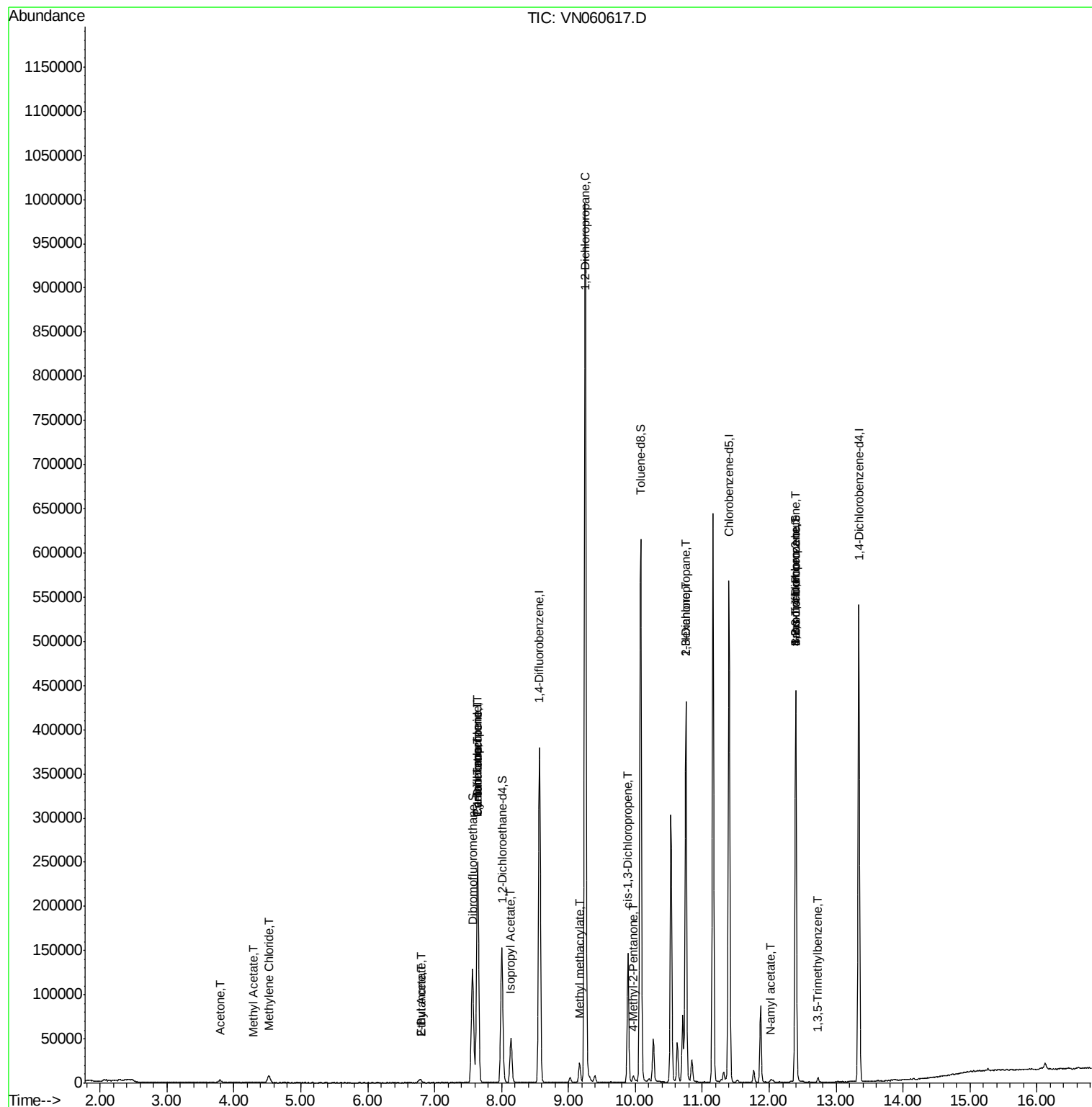
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6003	6.041	ug/l	95
18) Methyl Acetate	4.30	43	1681	0.601	ug/l #	54
20) Methylene Chloride	4.52	84	6313	2.583	ug/l	98
25) 2-Butanone	6.81	43	1179	0.733	ug/l #	50
31) Cyclohexane	7.64	56	4315	0.955	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15838	4.811	ug/l #	50
37) Ethyl Acetate	6.81	43	1179	0.331	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19557	6.628	ug/l #	16
43) Isopropyl Acetate	8.14	43	60310	10.281	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1094	0.417	ug/l #	43
48) Methyl methacrylate	9.16	41	3151	1.206	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5299	1.587	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	25556	6.156	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4240	1.058	ug/l #	42
59) 2-Hexanone	10.75	43	62852	26.137	ug/l #	52
71) Bromoform	12.39	173	225	1.795	ug/l #	1
74) N-amyl acetate	12.02	43	3309	0.666	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	79338	25.653	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3351	0.367	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	79338	65.885	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

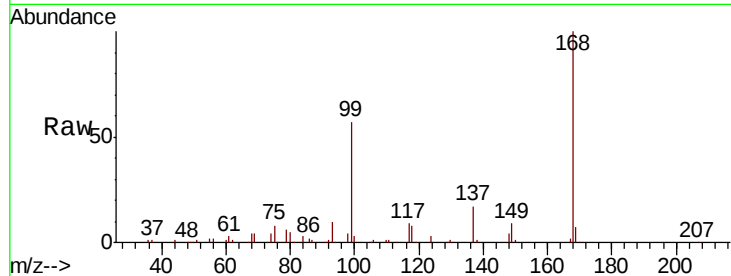
PB127624ZHE#11

Tot Ion:168 Resp: 204349

Ion Ratio Lower Upper

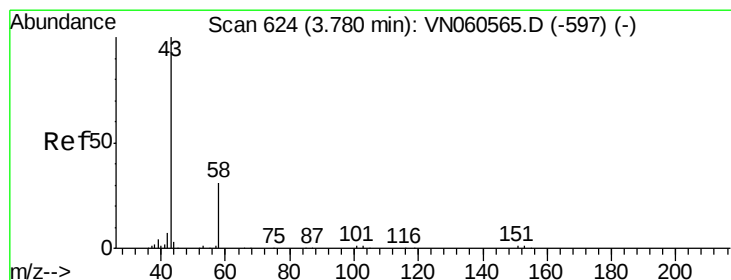
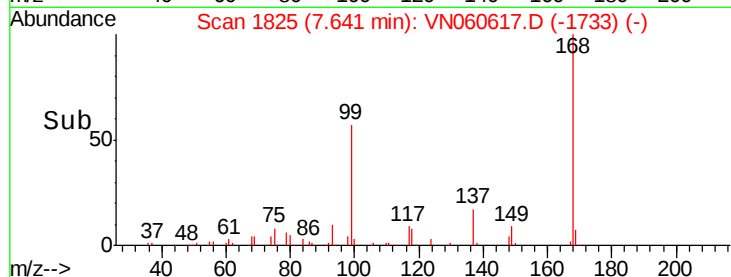
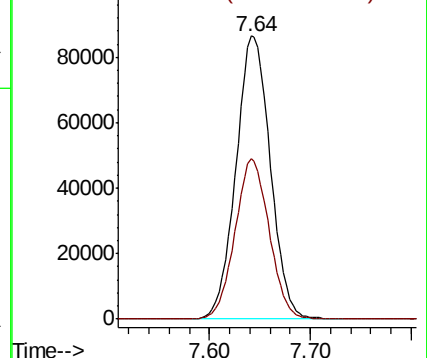
168 100

99 56.9 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 6.041 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060617.D

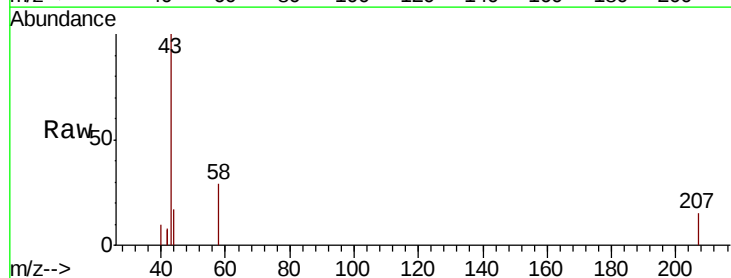
Acq: 19 Mar 2020 1:51

Tgt Ion: 43 Resp: 6003

Ion Ratio Lower Upper

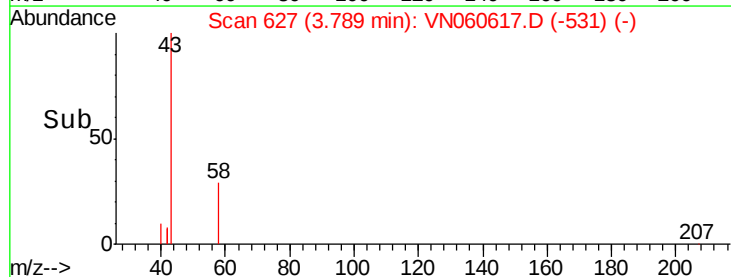
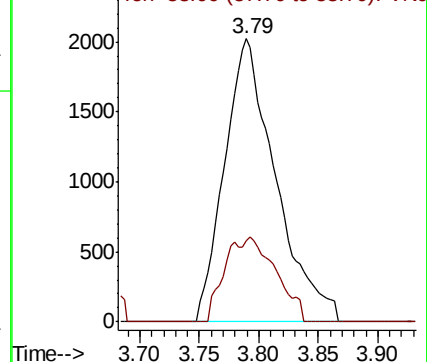
43 100

58 28.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

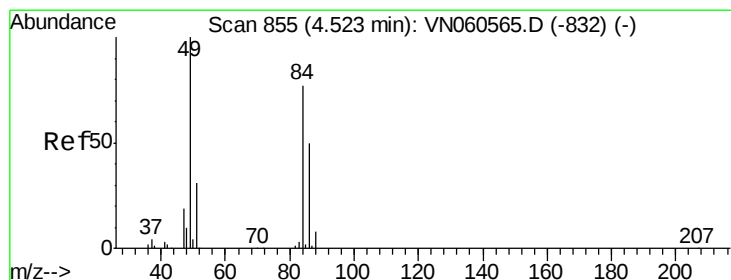
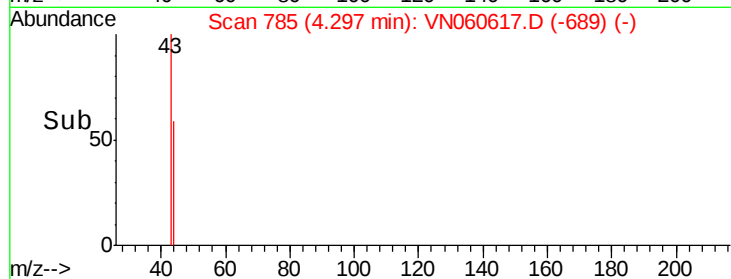
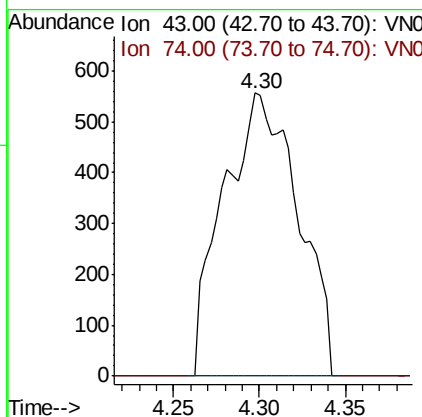
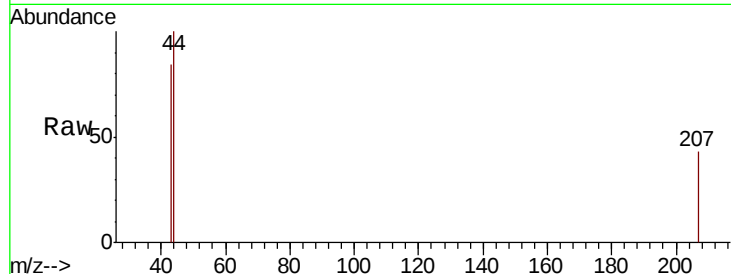




#18
Methyl Acetate
Concen: 0.601 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

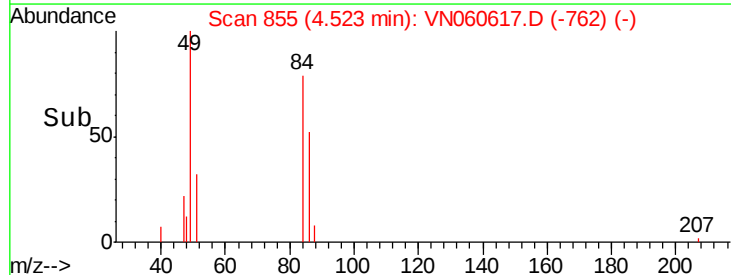
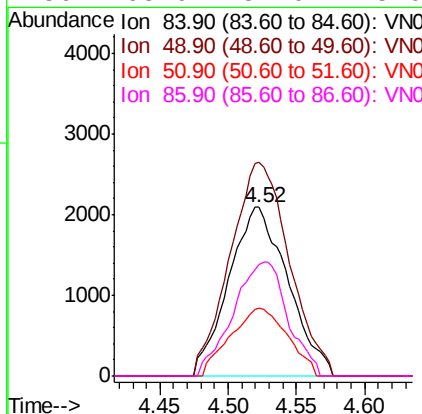
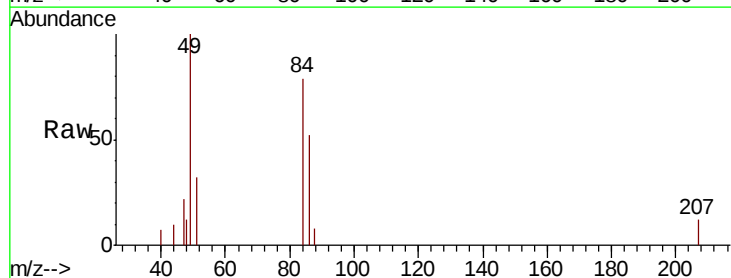
Instrument :
MSVOA_N
ClientSampleId :
PB127624ZHE#11

Tot Ion: 43 Resp: 1681
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.583 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Tgt Ion: 84 Resp: 6313
Ion Ratio Lower Upper
84 100
49 126.6 103.3 154.9
51 40.4 31.6 47.4
86 65.9 52.0 78.0

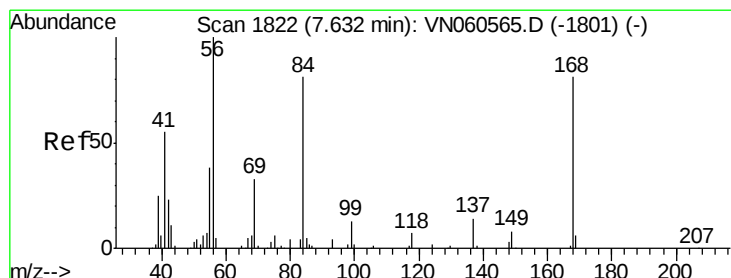
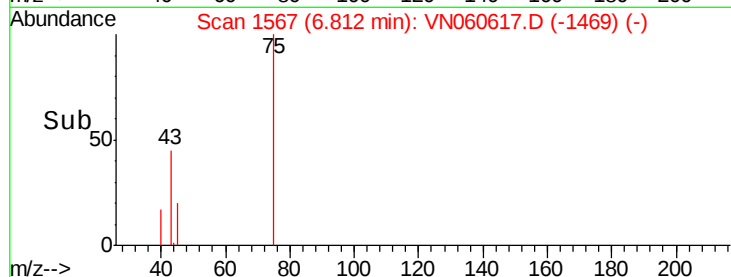
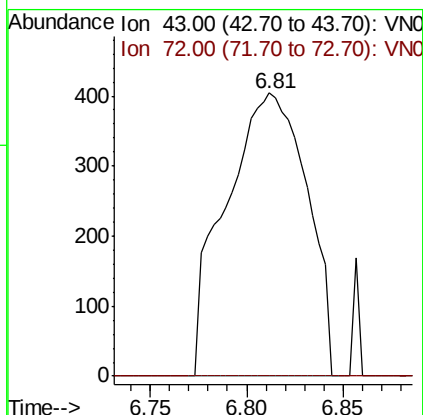
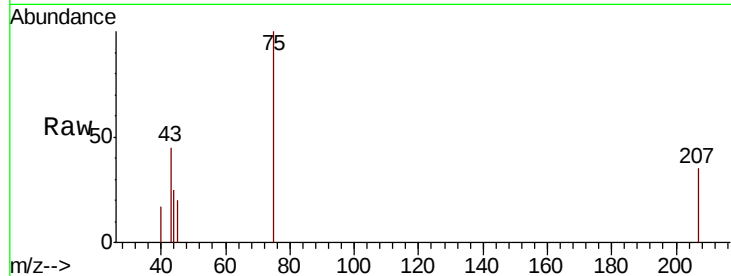




#25
2-Butanone
Concen: 0.733 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.02 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

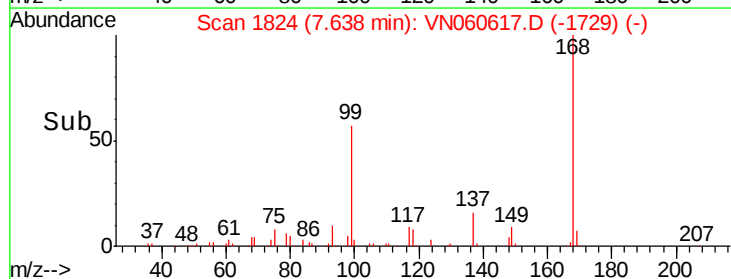
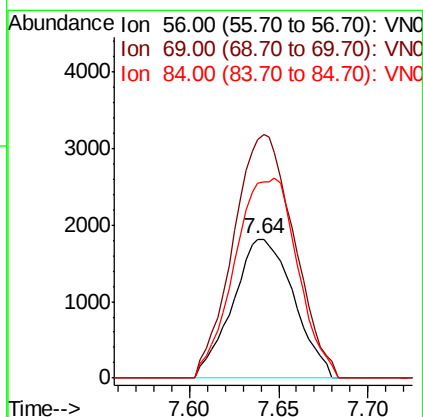
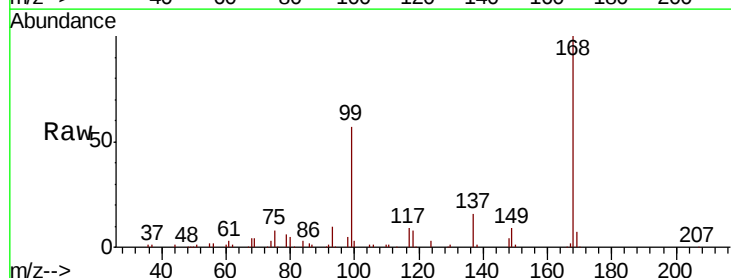
Instrument :
MSVOA_N
ClientSampleId :
PB127624ZHE#11

Tot Ion: 43 Resp: 1179
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.955 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Tgt Ion: 56 Resp: 4315
Ion Ratio Lower Upper
56 100
69 171.7 26.6 40.0#
84 140.1 64.3 96.5#

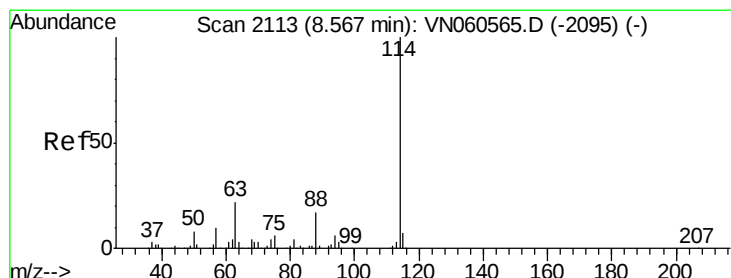
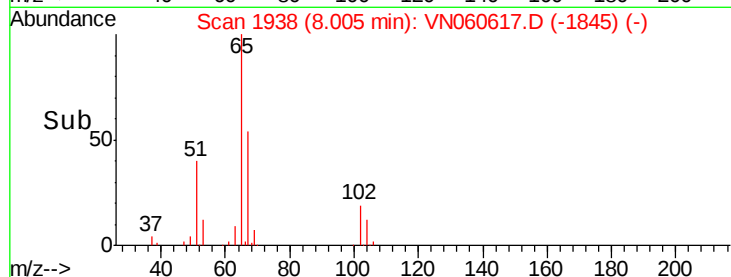
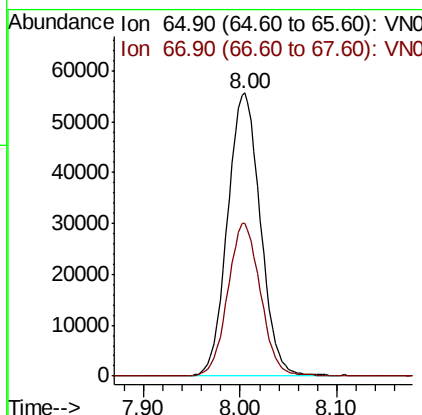
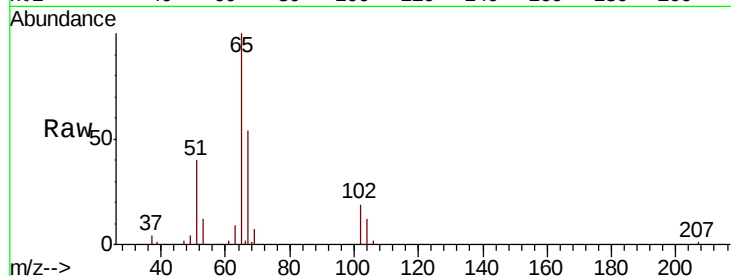




#33
 1,2-Dichloroethane-d4
 Concen: 46.835 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060617.D
 Acq: 19 Mar 2020 1:51

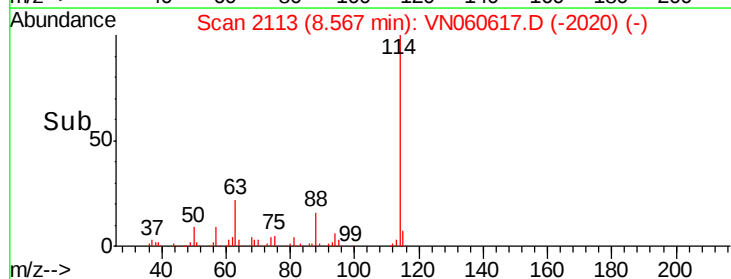
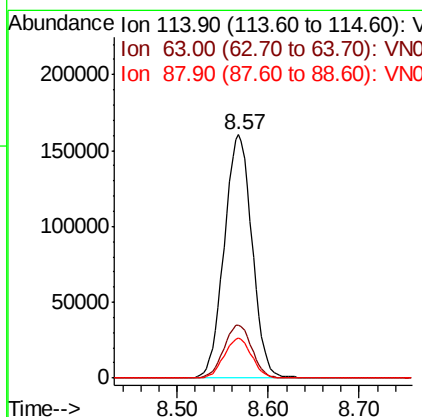
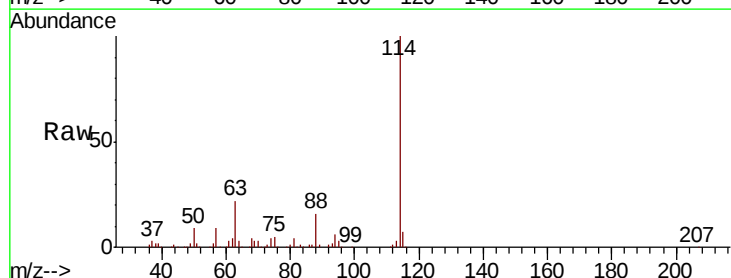
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127624ZHE#11

Tot Ion: 65 Resp: 131385
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060617.D
 Acq: 19 Mar 2020 1:51

Tgt Ion: 114 Resp: 339980
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.8
 88 16.5 0.0 33.0

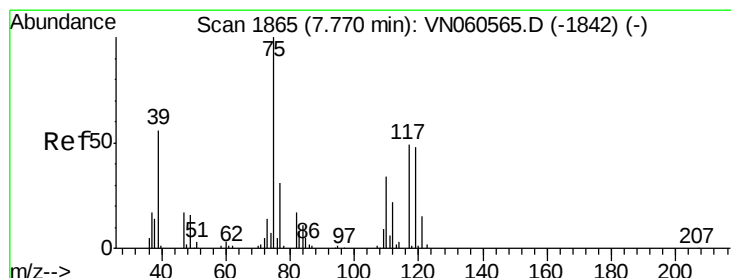
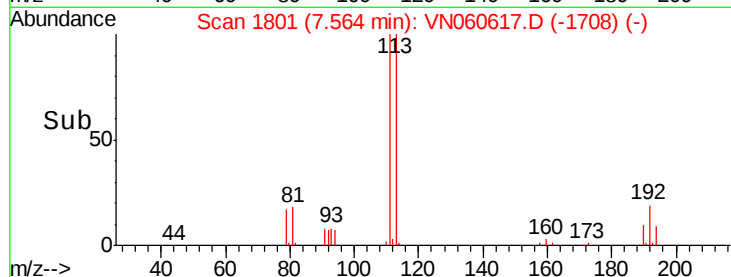
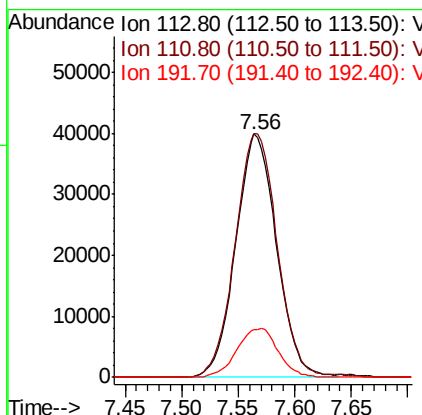
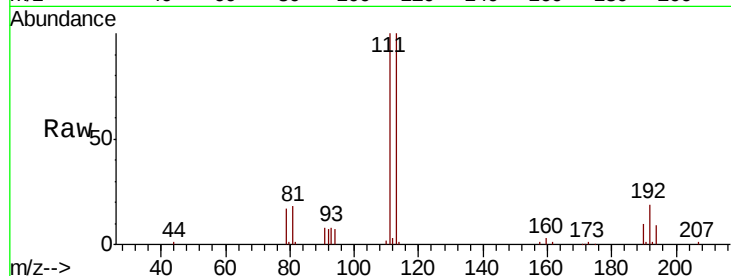




#35
 Dibromofluoromethane
 Concen: 48.647 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060617.D
 Acq: 19 Mar 2020 1:51

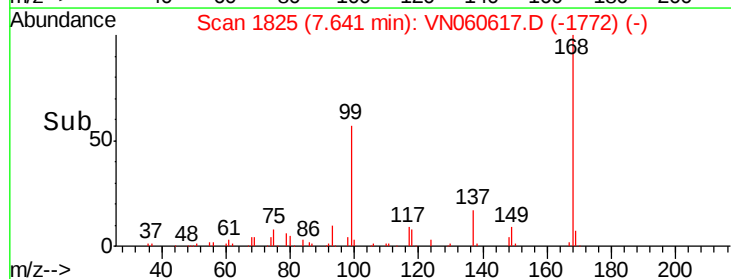
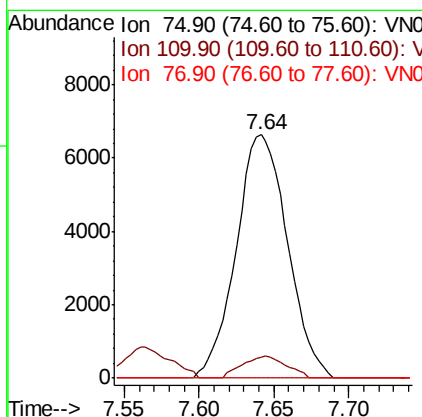
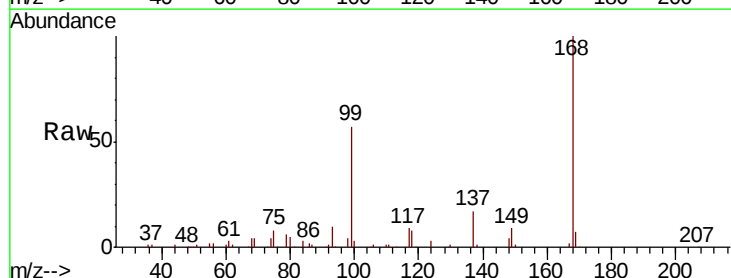
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127624ZHE#11

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.9	124.3
192	20.3	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 4.811 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060617.D
 Acq: 19 Mar 2020 1:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.9	50.6#
77	0.0	24.6	36.8#

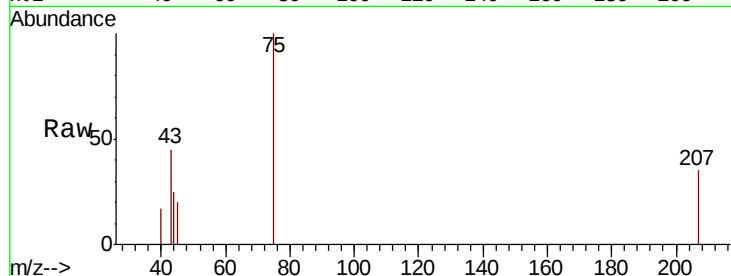




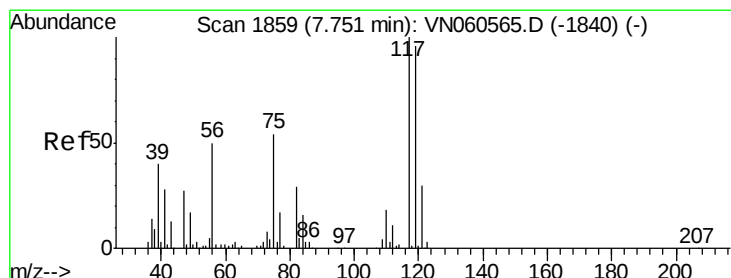
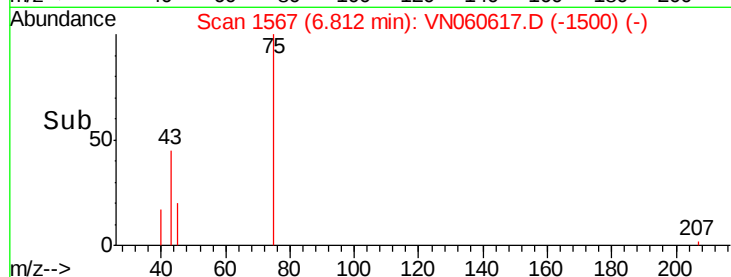
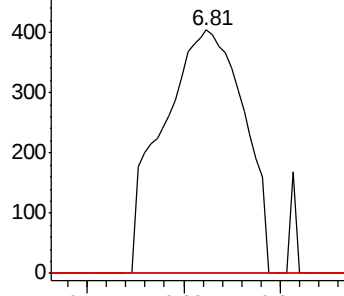
#37
Ethyl Acetate
Concen: 0.331 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.08 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Instrument :
MSVOA_N
ClientSampleId :
PB127624ZHE#11

Tot Ion: 43 Resp: 1179
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

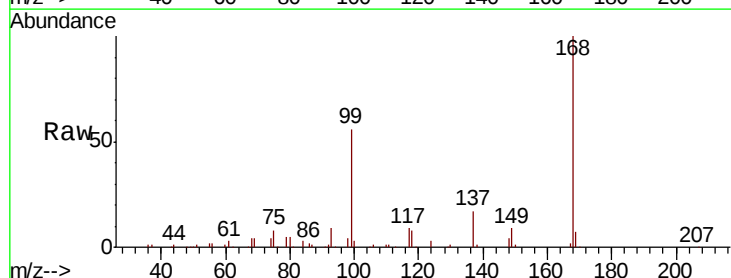


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

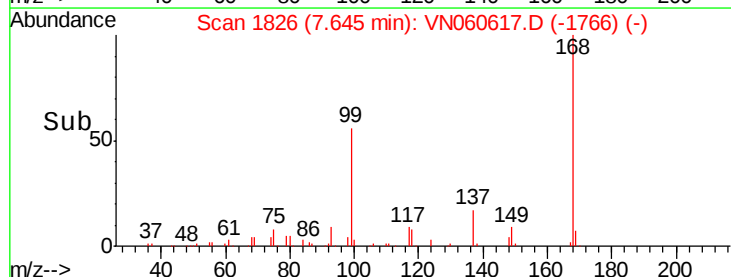
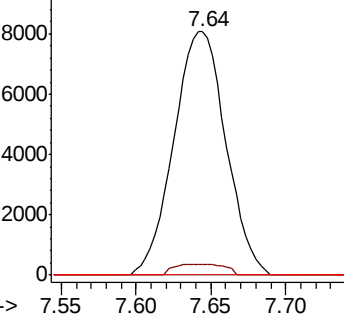


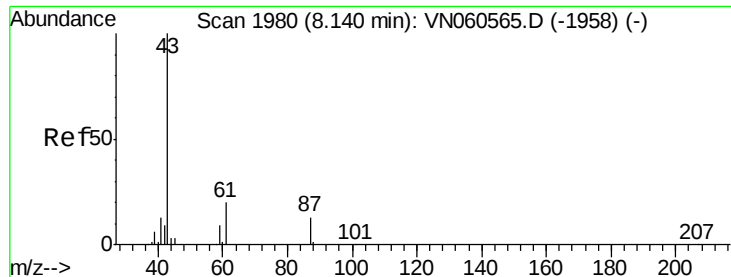
#38
Carbon Tetrachloride
Concen: 6.628 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Tgt Ion: 117 Resp: 19557
Ion Ratio Lower Upper
117 100
119 4.4 76.2 114.2#
121 0.0 23.7 35.5#



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: 10.281 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

PB127624ZHE#11

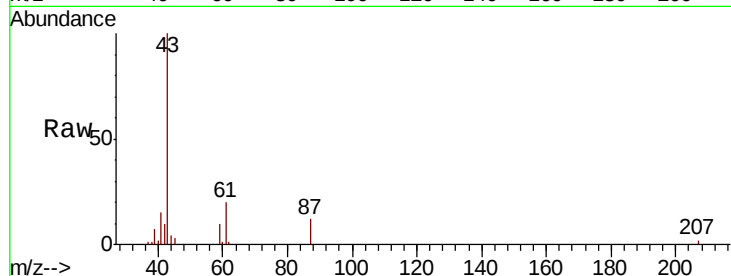
Tot Ion: 43 Resp: 60310

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

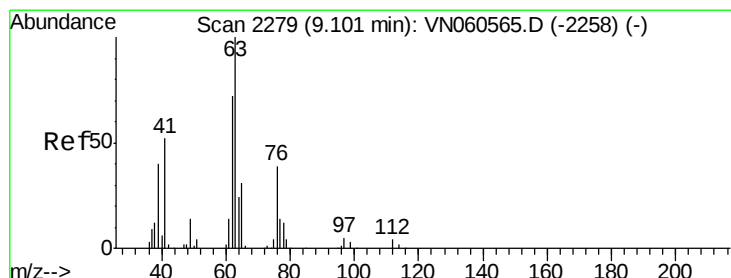
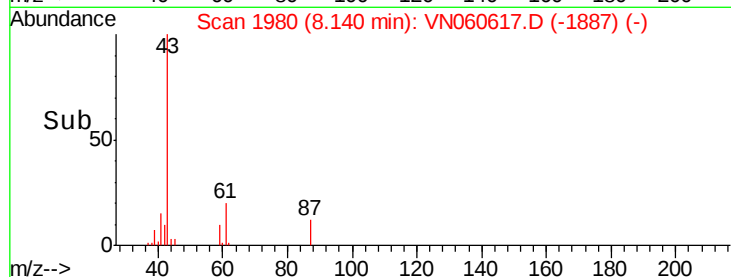
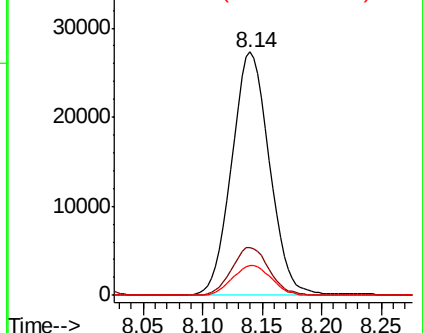
87 12.5 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060617.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060617.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060617.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.417 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060617.D

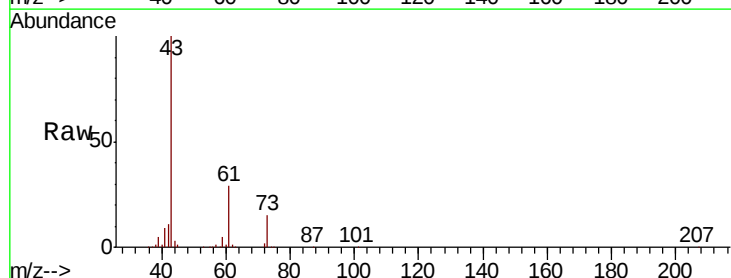
Acq: 19 Mar 2020 1:51

Tgt Ion: 63 Resp: 1094

Ion Ratio Lower Upper

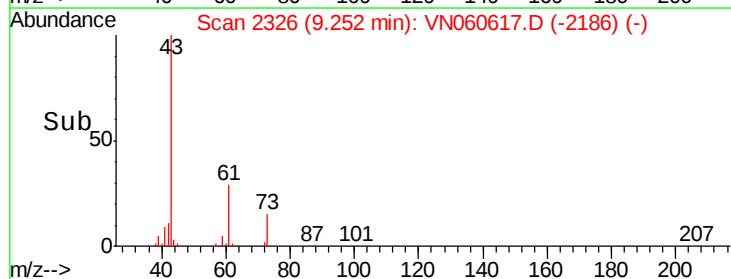
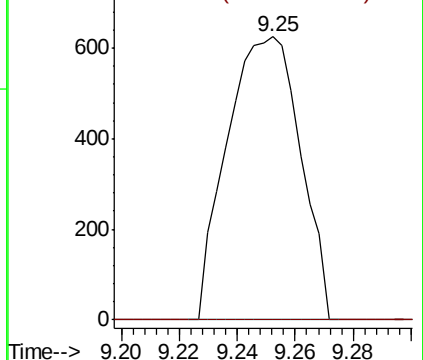
63 100

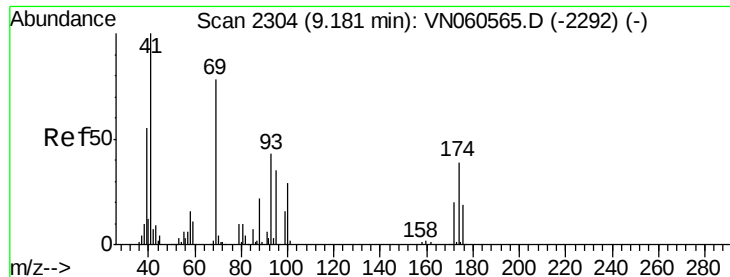
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060617.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060617.D (-2186) (-)

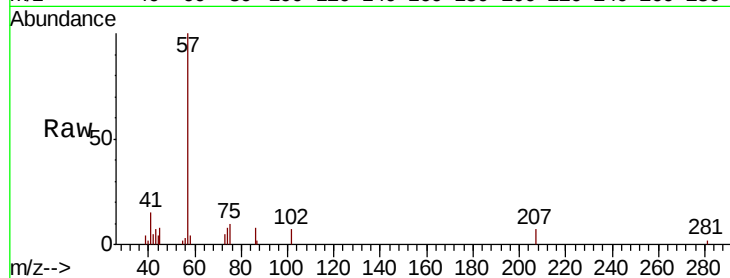




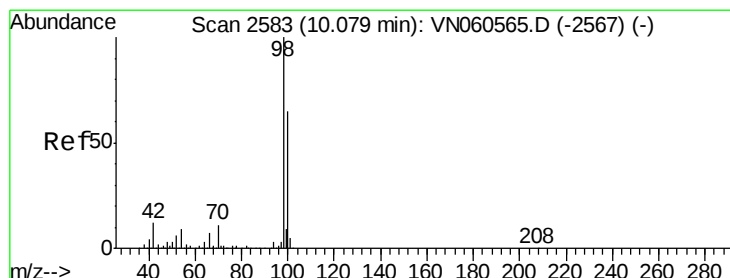
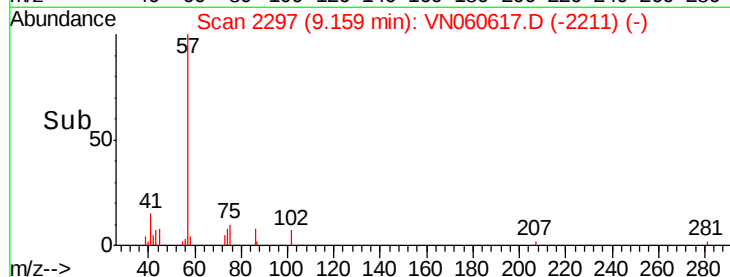
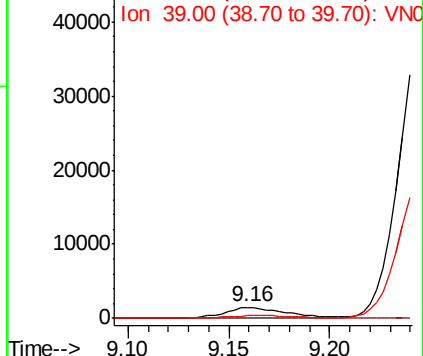
#48
Methvl methacrylate
Concen: 1.206 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Instrument :
MSVOA_N
ClientSampleId :
PB127624ZHE#11

Tot Ion: 41 Resp: 3151
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

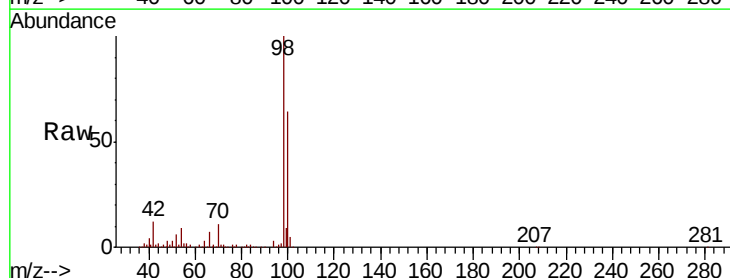


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

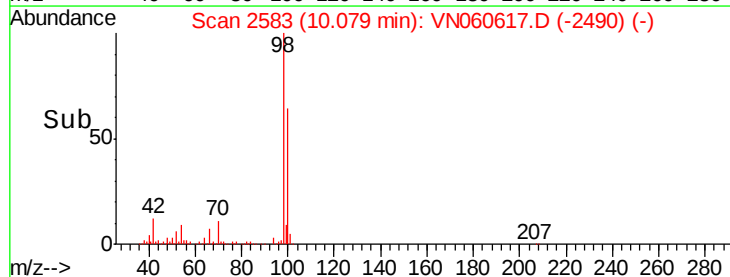
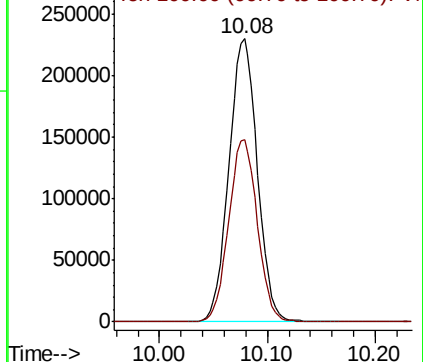


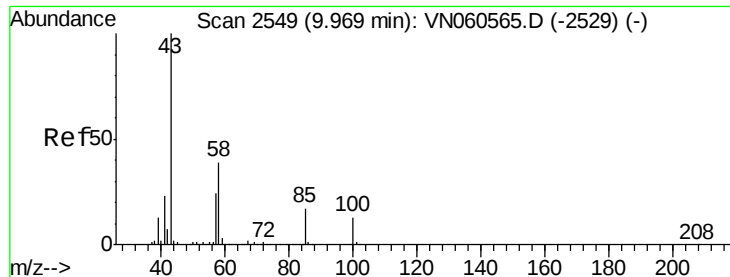
#50
Toluene-d8
Concen: 50.308 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060617.D
Acq: 19 Mar 2020 1:51

Tgt Ion: 98 Resp: 422437
Ion Ratio Lower Upper
98 100
100 64.8 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.587 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

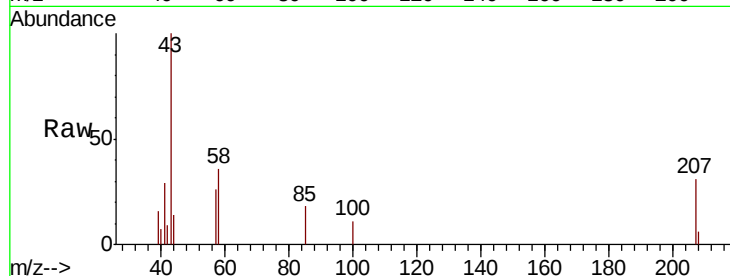
PB127624ZHE#11

Tot Ion: 43 Resp: 5299

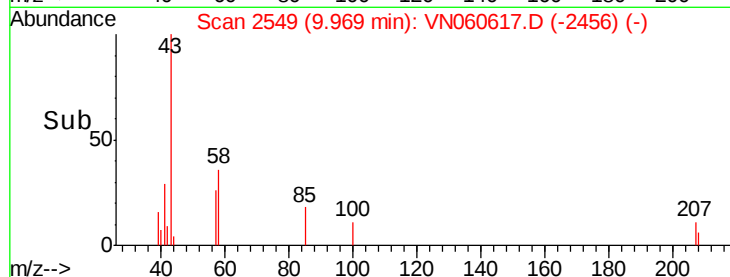
Ion Ratio Lower Upper

43 100

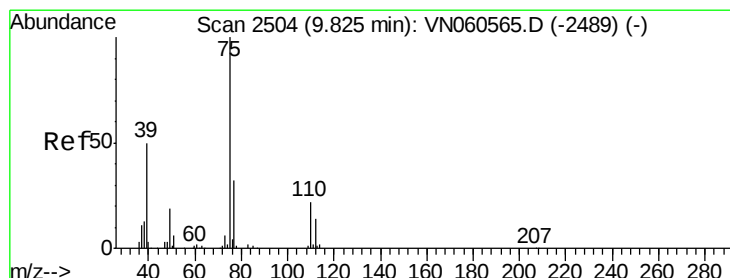
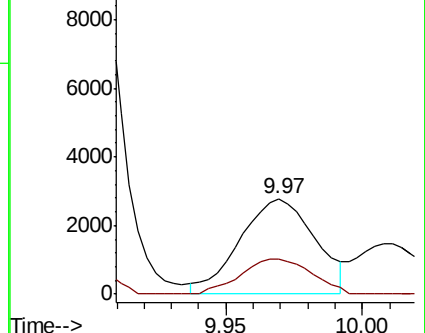
58 35.1 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060617.D (-2456) (-)



Ion 58.00 (57.70 to 58.70): VN060617.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.156 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

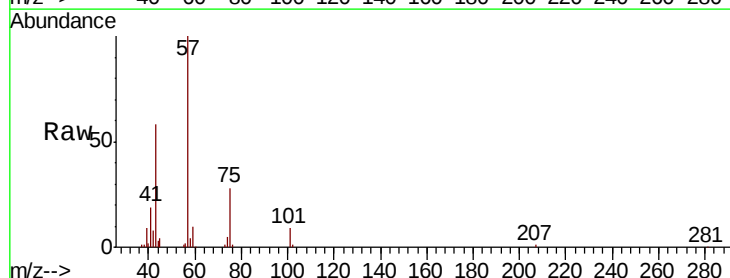
Tgt Ion: 75 Resp: 25556

Ion Ratio Lower Upper

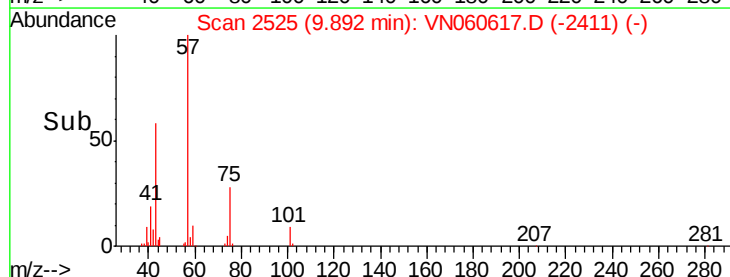
75 100

77 0.0 25.4 38.0#

39 31.6 40.2 60.4#

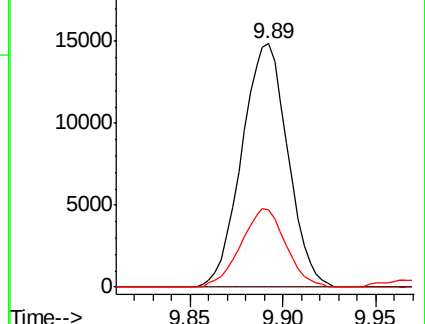


Abundance Ion 74.90 (74.60 to 75.60): VN060617.D (-2411) (-)



Ion 76.90 (76.60 to 77.60): VN060617.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060617.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.058 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

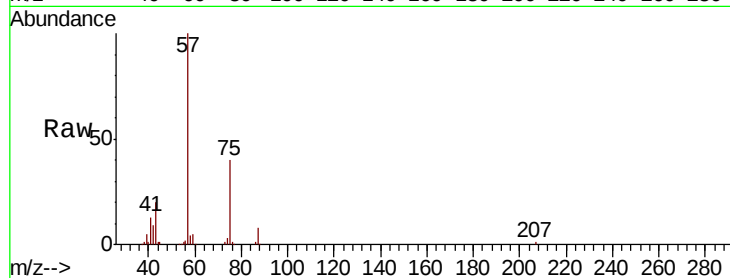
PB127624ZHE#11

Tot Ion: 76 Resp: 4240

Ion Ratio Lower Upper

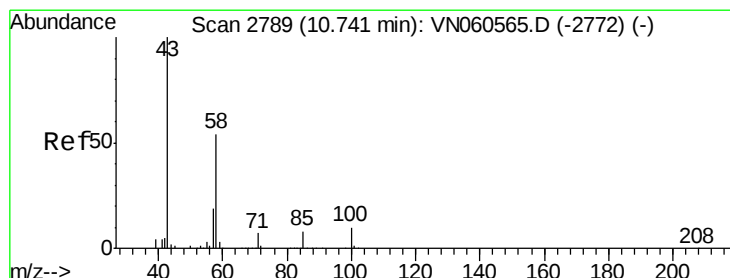
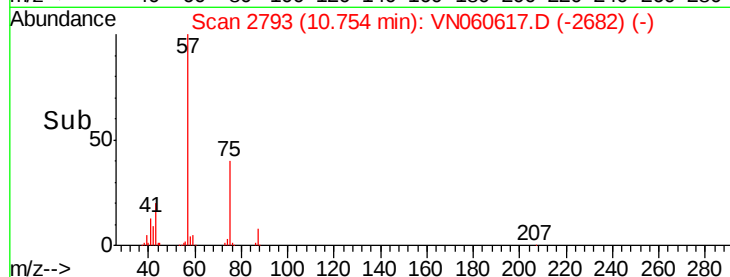
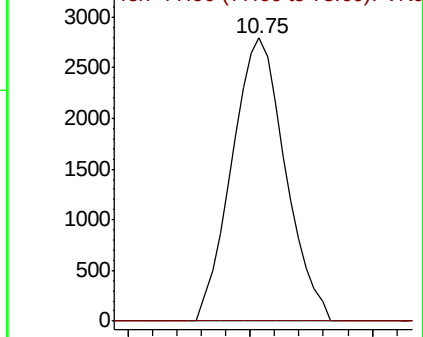
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.137 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060617.D

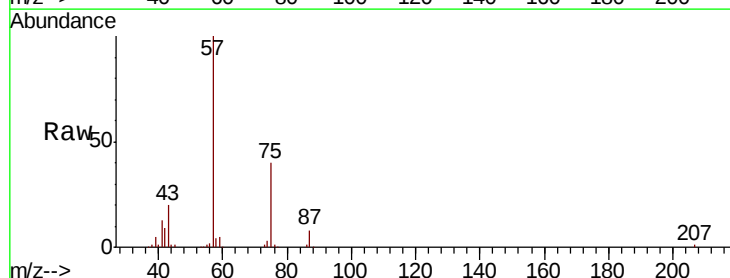
Acq: 19 Mar 2020 1:51

Tgt Ion: 43 Resp: 62852

Ion Ratio Lower Upper

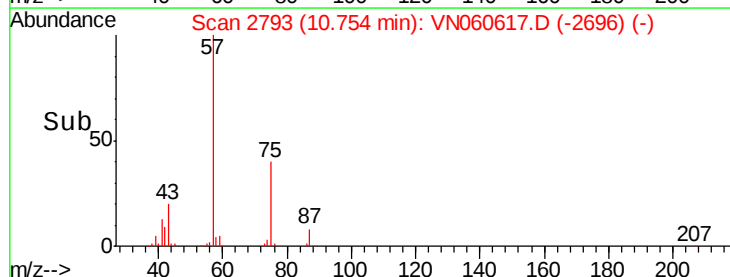
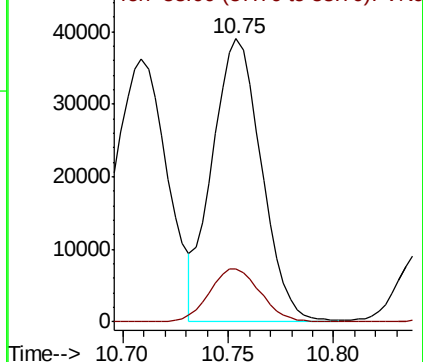
43 100

58 19.4 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.064 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

PB127624ZHE#11

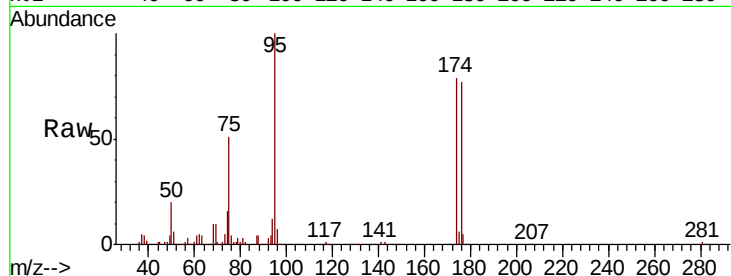
Tot Ion: 95 Resp: 157142

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

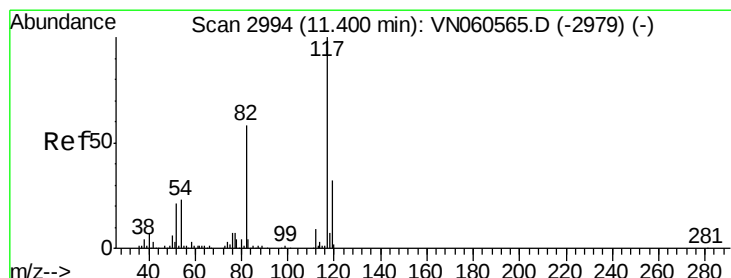
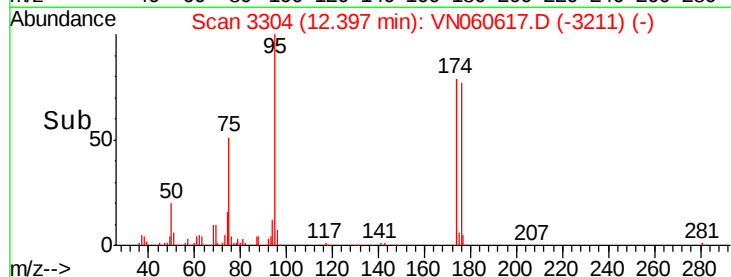
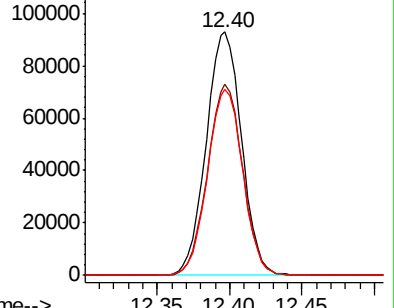
176 76.2 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060617.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060617.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060617.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

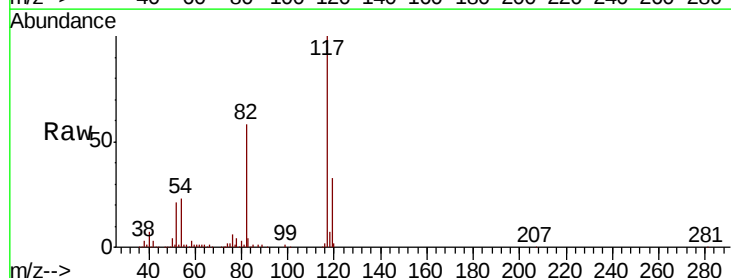
Tgt Ion: 117 Resp: 318943

Ion Ratio Lower Upper

117 100

82 58.1 46.7 70.1

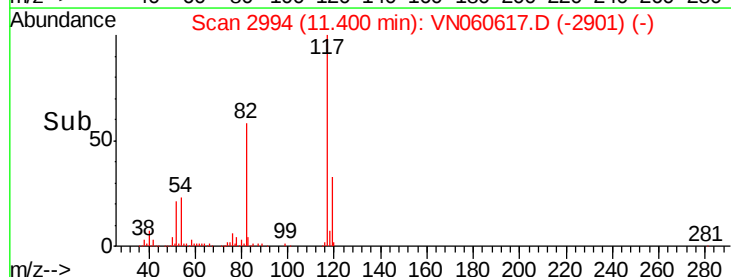
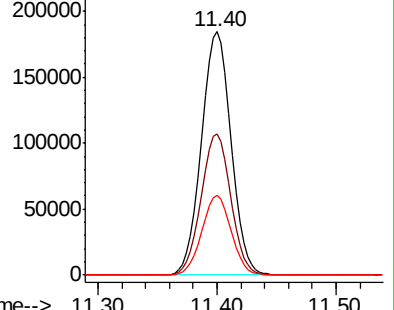
119 32.7 25.5 38.3

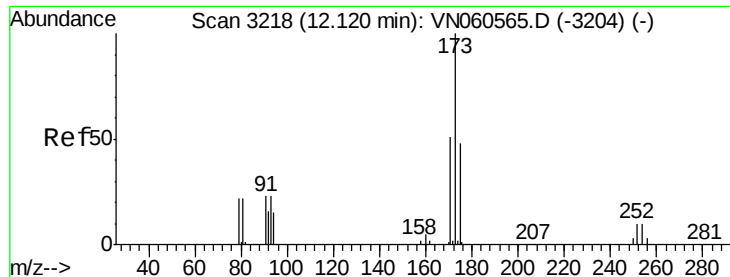


Abundance Ion 116.90 (116.60 to 117.60): VN060617.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060617.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060617.D (-2979) (-)





#71

Bromoform

Concen: 1.795 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

PB127624ZHE#11

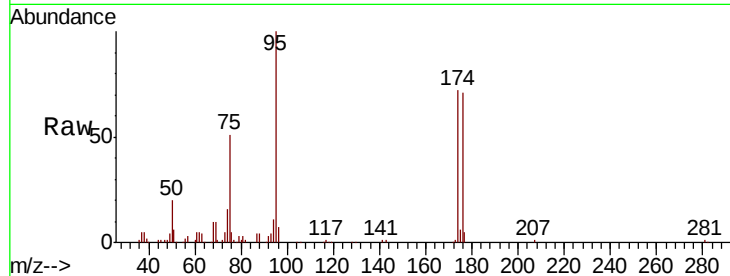
Tot Ion:173 Resp: 225

Ion Ratio Lower Upper

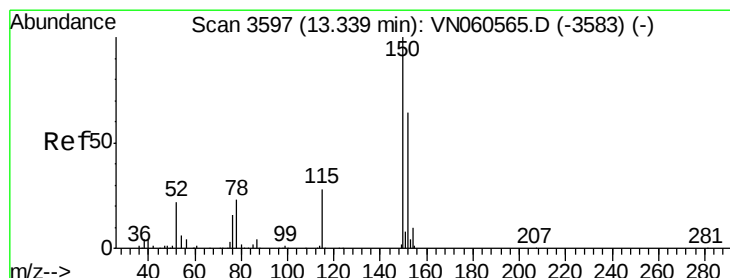
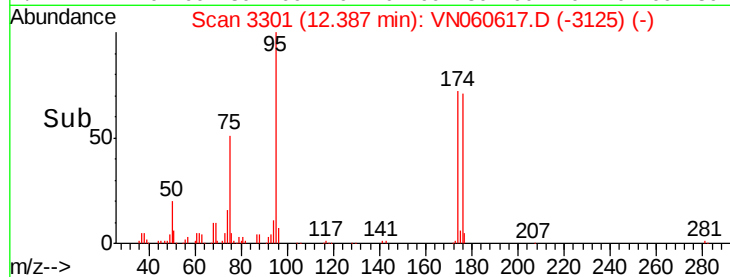
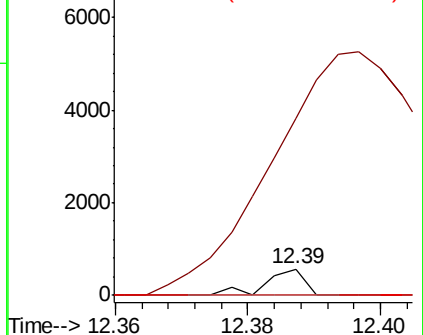
173 100

175 3405.3 24.1 72.4#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

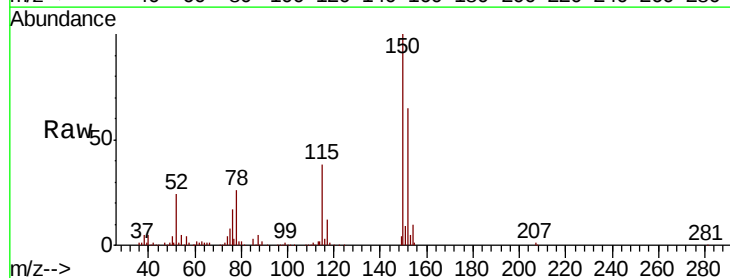
Tgt Ion:152 Resp: 143327

Ion Ratio Lower Upper

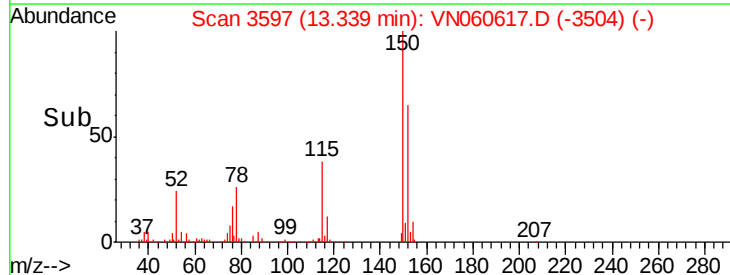
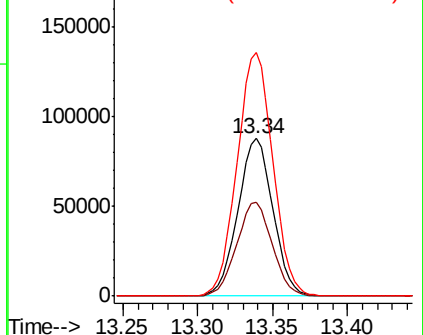
152 100

115 60.2 30.2 90.6

150 157.6 0.0 350.2



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: 0.666 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

PB127624ZHE#11

Tot Ion: 43 Resp: 3309

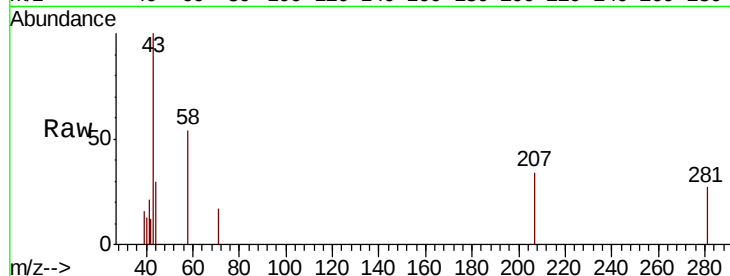
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

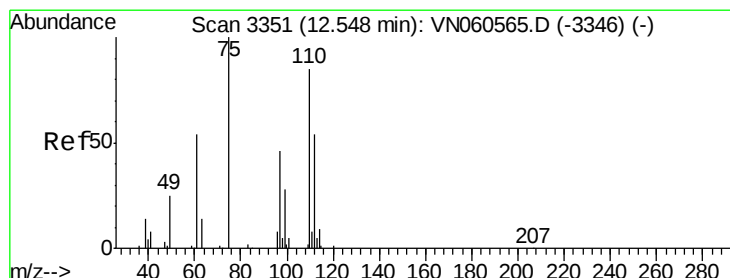
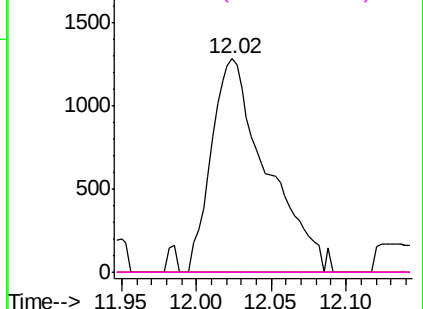
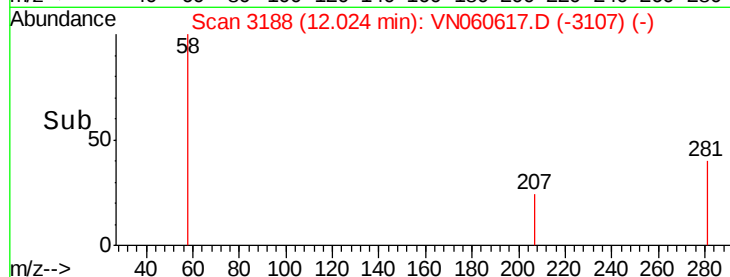


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 25.653 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060617.D

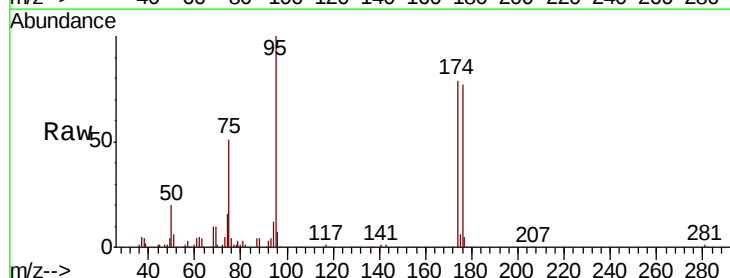
Acq: 19 Mar 2020 1:51

Tgt Ion: 75 Resp: 79338

Ion Ratio Lower Upper

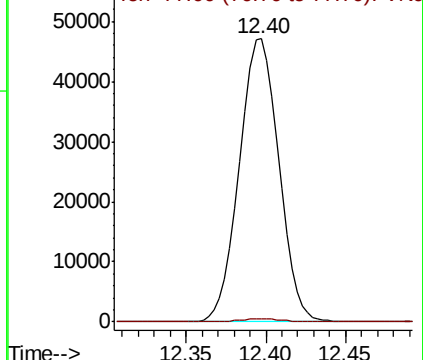
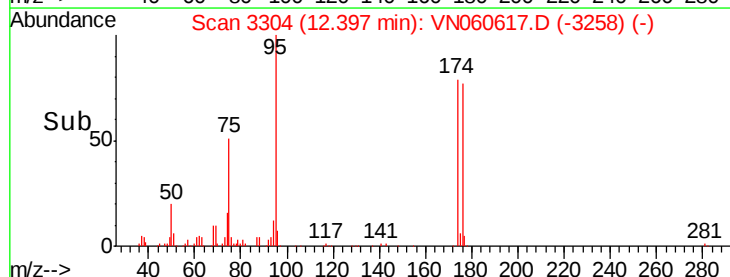
75 100

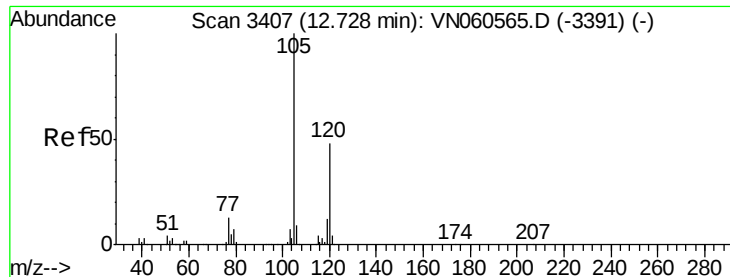
77 1.1 0.0 0.0#



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: 0.367 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

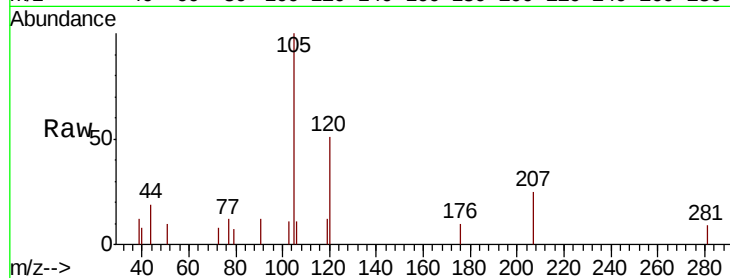
PB127624ZHE#11

Tot Ion:105 Resp: 3351

Ion Ratio Lower Upper

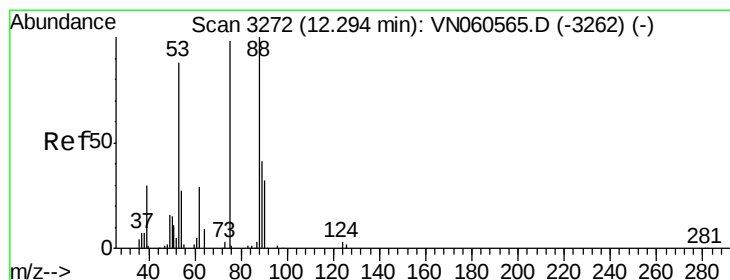
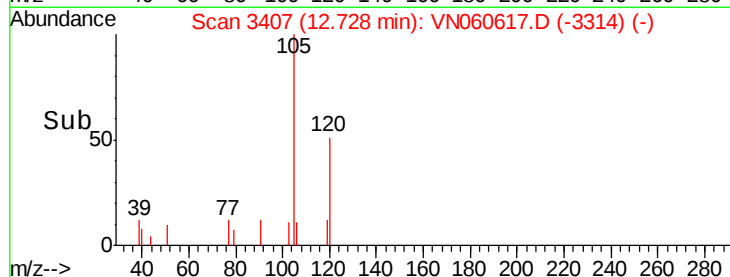
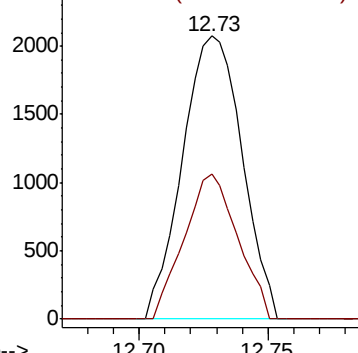
105 100

120 46.0 23.9 71.7



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: 65.885 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060617.D

Acq: 19 Mar 2020 1:51

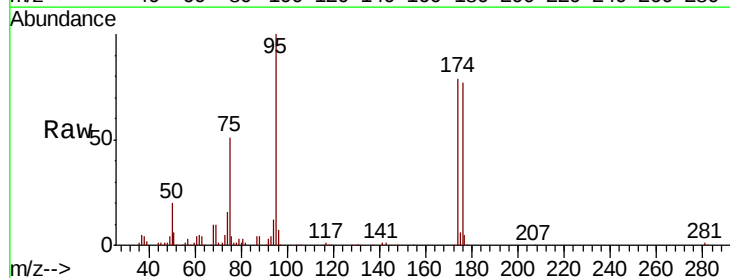
Tgt Ion: 75 Resp: 79338

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

