

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060945.D
 Acq On : 14 Apr 2020 19:38
 Operator : JC/MD
 Sample : L2230-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12-B

Quant Time: Apr 15 07:49:50 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	149643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	254932	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	242048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111676	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	100836	49.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.18%	
35) Dibromofluoromethane	7.56	113	75791	49.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.34%	
50) Toluene-d8	10.08	98	319132	50.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.36%	
62) 4-Bromofluorobenzene	12.39	95	121027	52.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.90%	

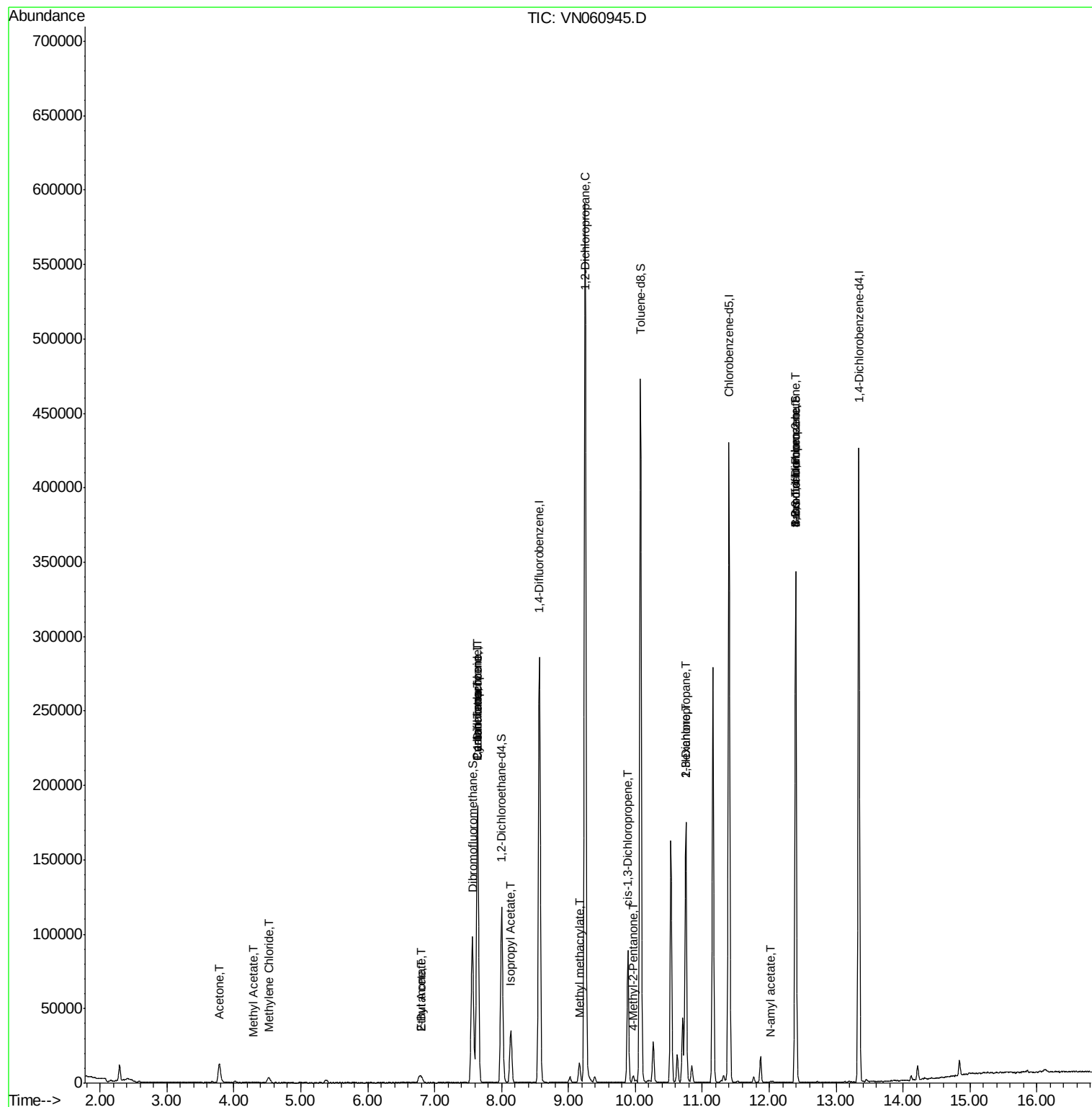
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	21890	30.083	ug/l	99
18) Methyl Acetate	4.29	43	1399	0.683	ug/l #	54
20) Methylene Chloride	4.52	84	2607	1.456	ug/l	91
25) 2-Butanone	6.81	43	6606	5.610	ug/l	94
31) Cyclohexane	7.64	56	3432	1.037	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12102	4.903	ug/l #	48
37) Ethyl Acetate	6.81	43	6606	2.477	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14820	6.699	ug/l #	16
43) Isopropyl Acetate	8.14	43	42576	9.679	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	610	0.310	ug/l #	43
48) Methyl methacrylate	9.16	41	2312	1.180	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3696	1.477	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	15349	4.931	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	1646	0.548	ug/l #	42
59) 2-Hexanone	10.75	43	26406	14.644	ug/l #	53
71) Bromoform	12.40	173	462	1.990	ug/l #	1
74) N-amyl acetate	12.02	43	945	0.244	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	61156	25.379	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	61156	65.180	ug/l #	13

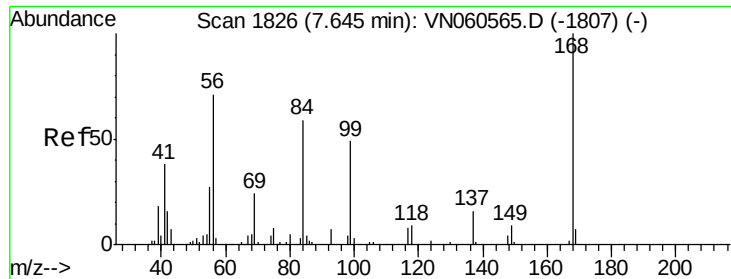
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 07:49:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

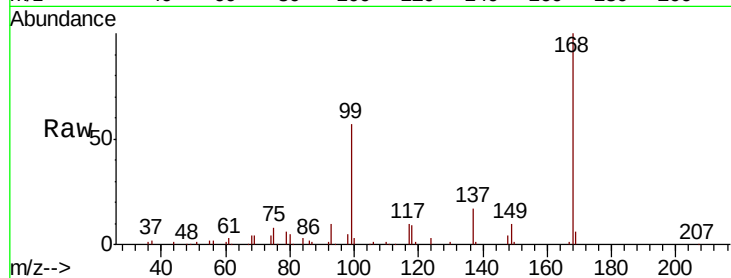
TP-12-B

Tot Ion:168 Resp: 149643

Ion Ratio Lower Upper

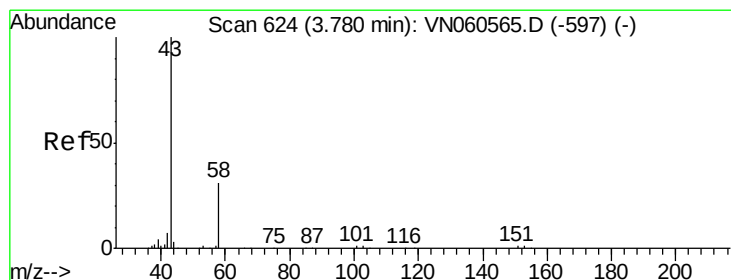
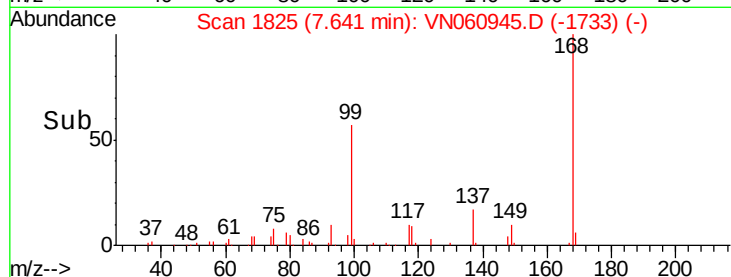
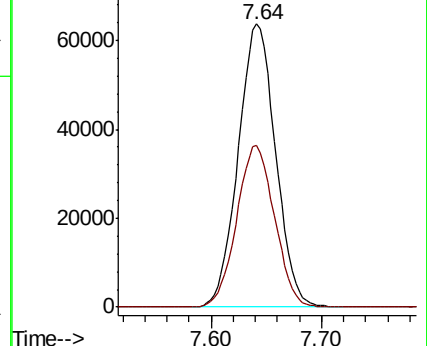
168 100

99 57.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 30.083 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060945.D

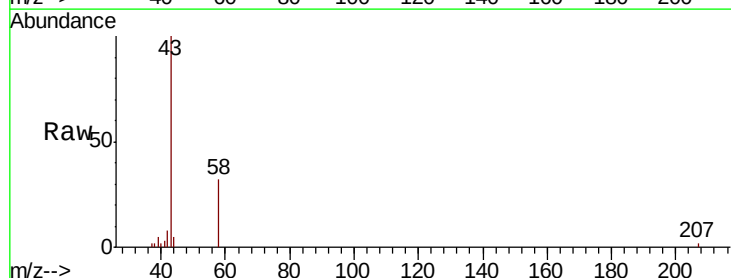
Acq: 14 Apr 2020 19:38

Tgt Ion: 43 Resp: 21890

Ion Ratio Lower Upper

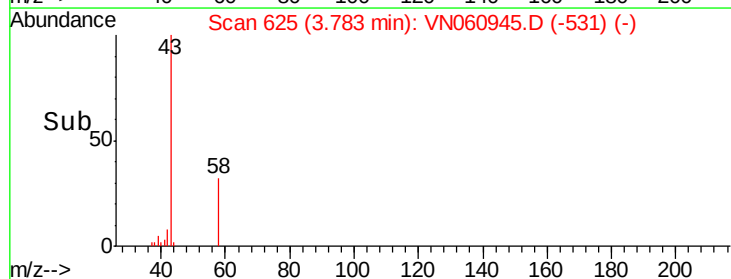
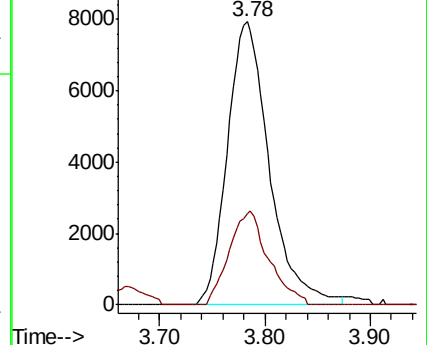
43 100

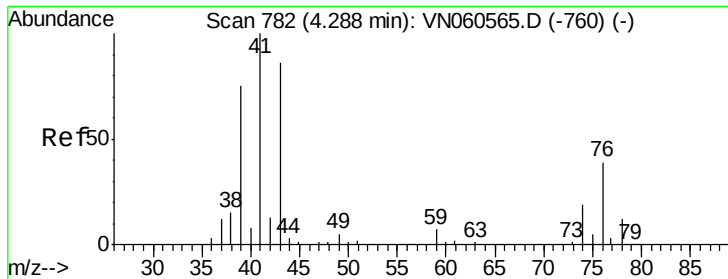
58 32.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

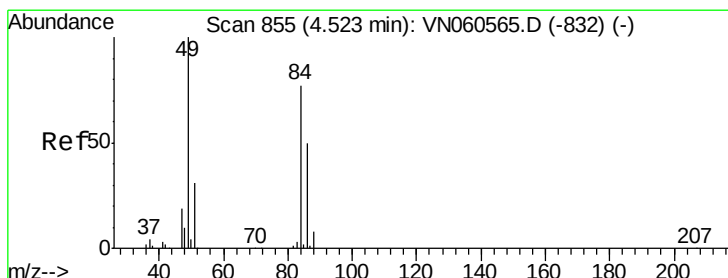
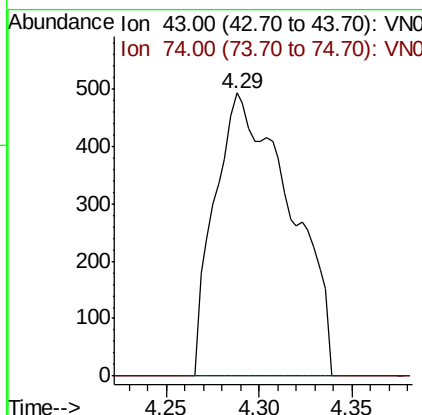
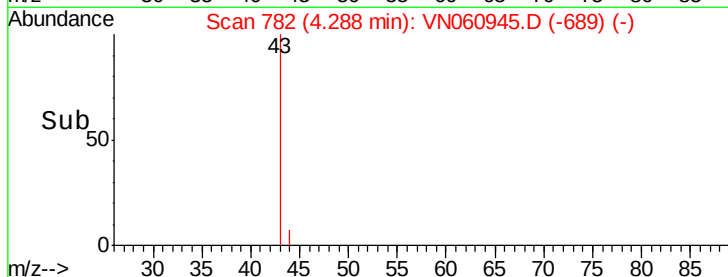
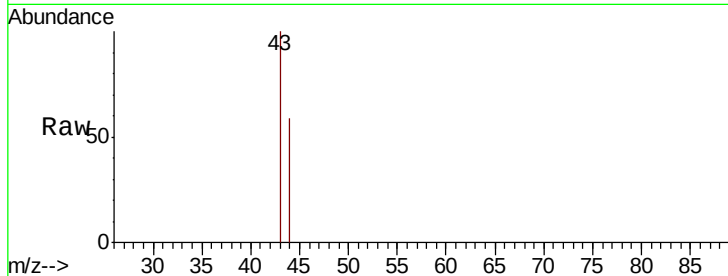




#18
Methyl Acetate
Concen: 0.683 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

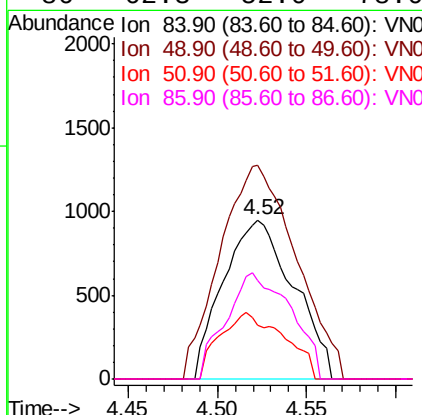
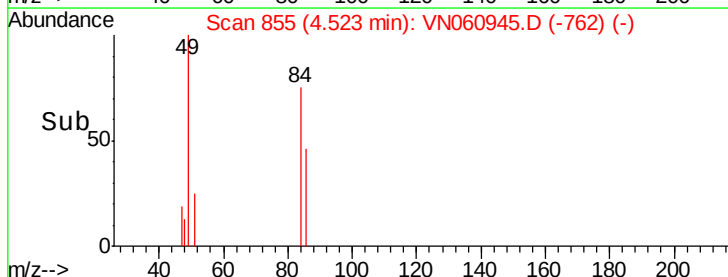
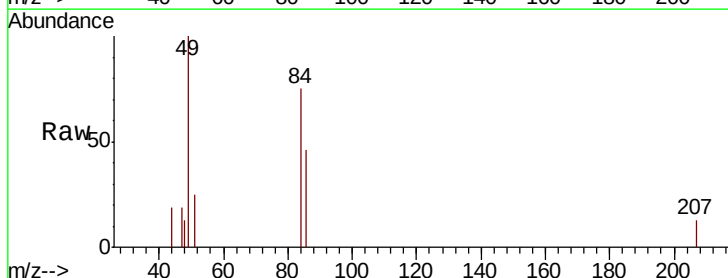
Instrument :
MSVOA_N
ClientSampled :
TP-12-B

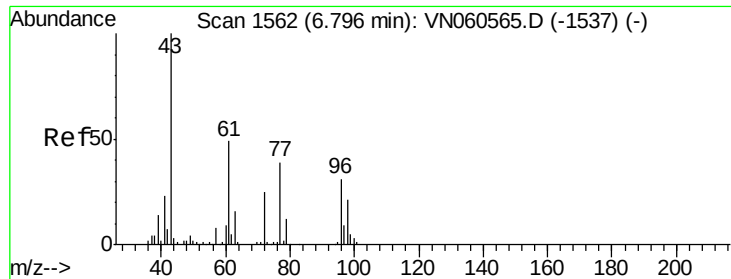
Tot Ion: 43 Resp: 1399
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.456 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

Tgt Ion: 84 Resp: 2607
Ion Ratio Lower Upper
84 100
49 116.2 103.3 154.9
51 34.0 31.6 47.4
86 62.3 52.0 78.0

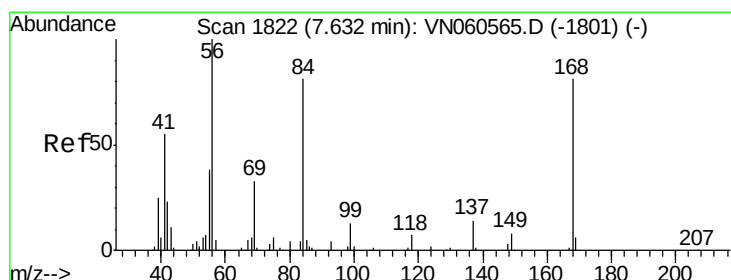
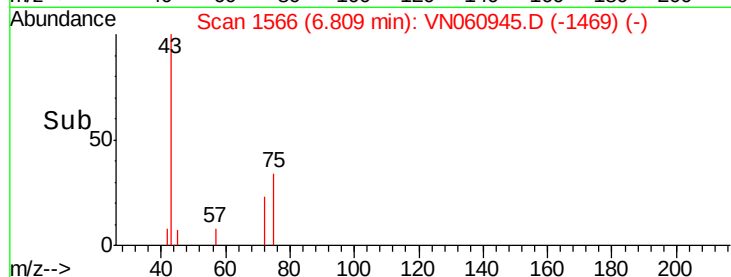
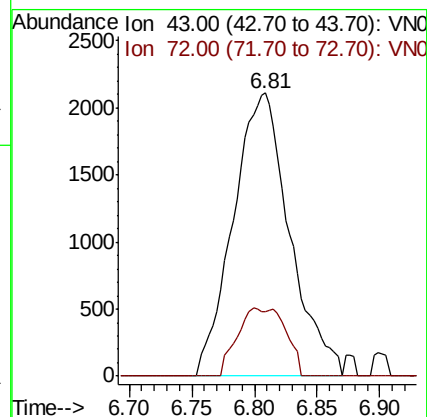
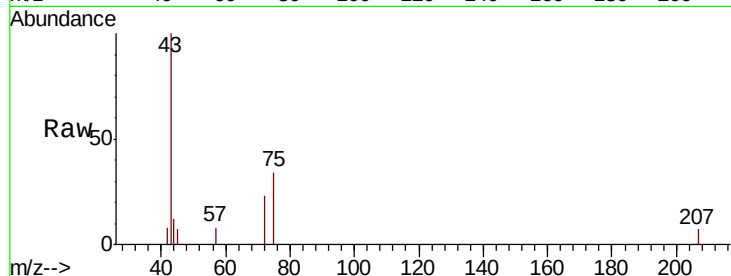




#25
2-Butanone
Concen: 5.610 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

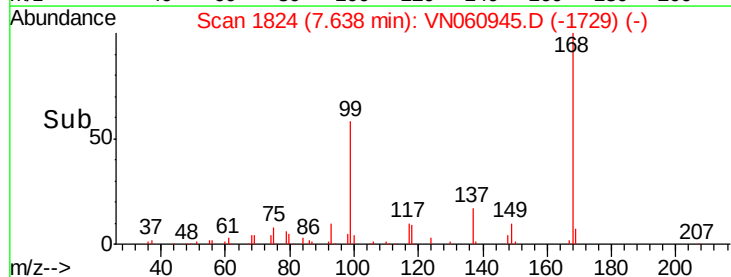
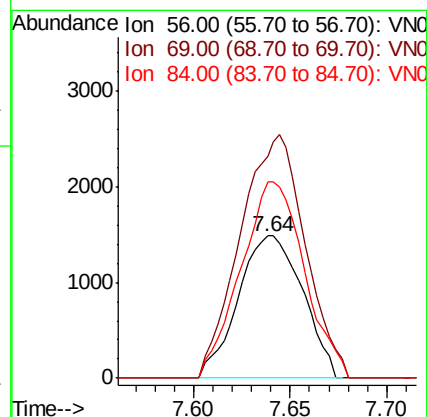
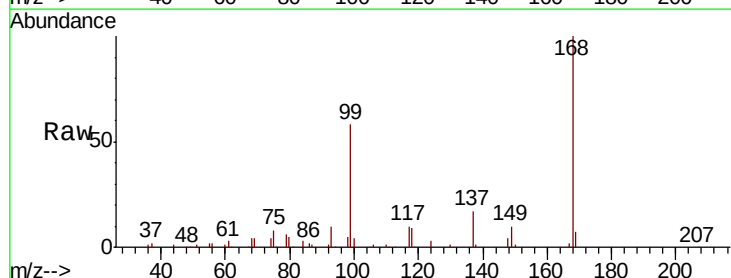
Instrument :
MSVOA_N
ClientSampleId :
TP-12-B

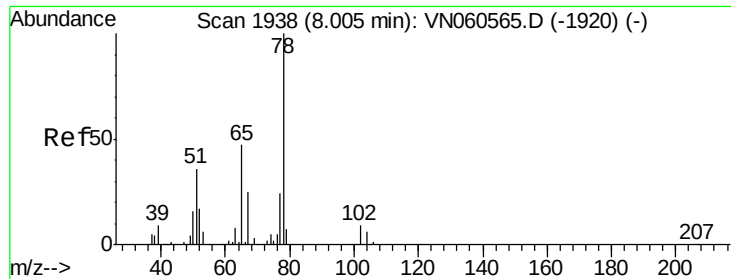
Tot Ion: 43 Resp: 6606
Ion Ratio Lower Upper
43 100
72 22.7 20.4 30.6



#31
Cyclohexane
Concen: 1.037 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

Tgt Ion: 56 Resp: 3432
Ion Ratio Lower Upper
56 100
69 156.2 26.6 40.0#
84 137.8 64.3 96.5#

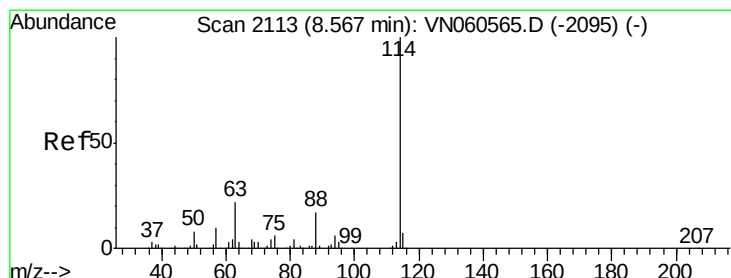
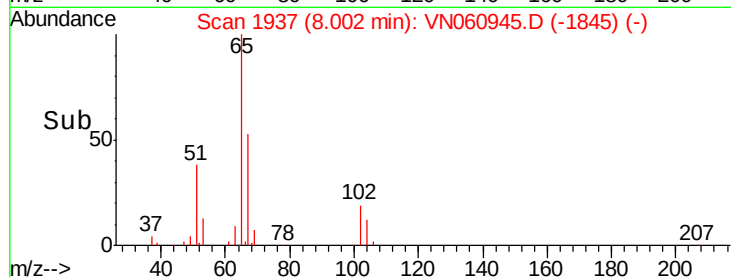
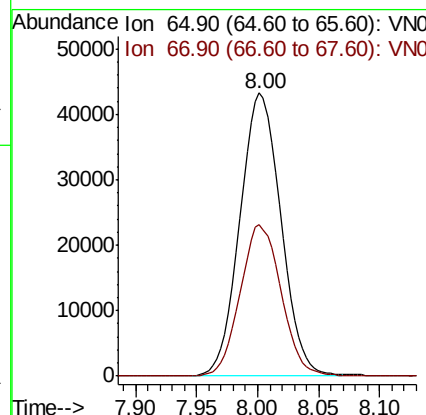
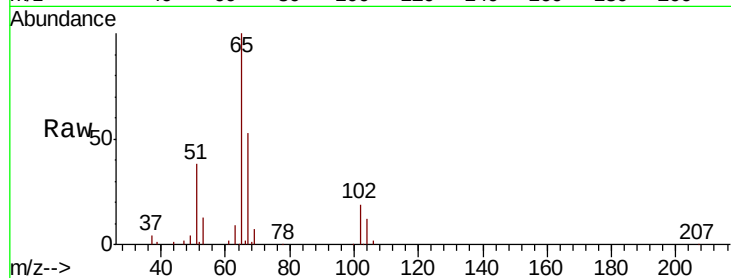




#33
 1,2-Dichloroethane-d4
 Concen: 49.086 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060945.D
 Acq: 14 Apr 2020 19:38

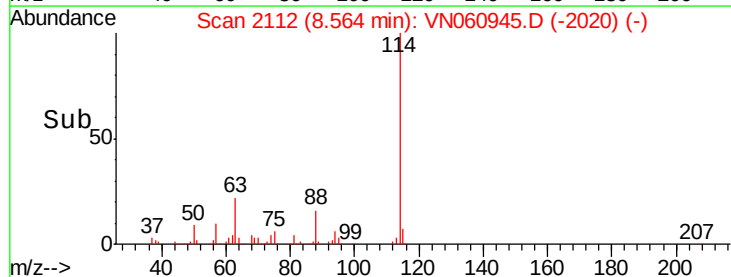
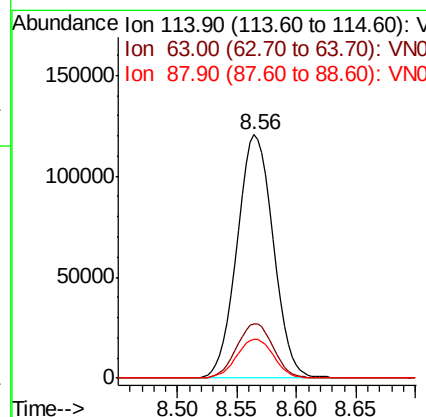
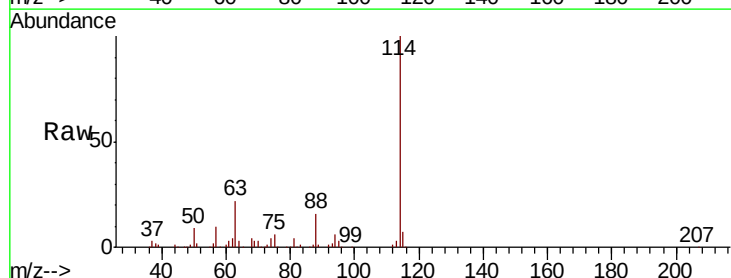
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12-B

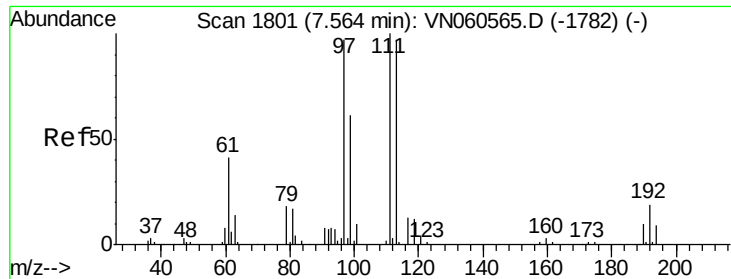
Tot Ion: 65 Resp: 100836
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060945.D
 Acq: 14 Apr 2020 19:38

Tgt Ion: 114 Resp: 254932
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.8
 88 16.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.167 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :
MSVOA_N
ClientSampleId :
TP-12-B

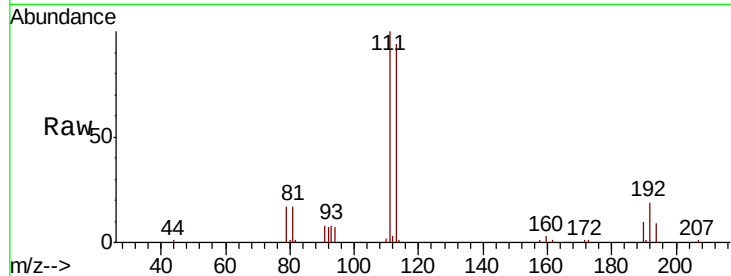
Tot Ion:113 Resp: 75791

Ion Ratio Lower Upper

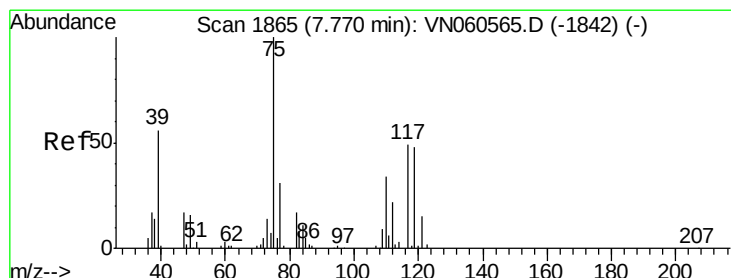
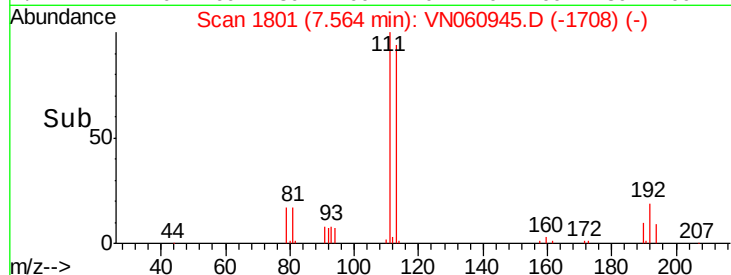
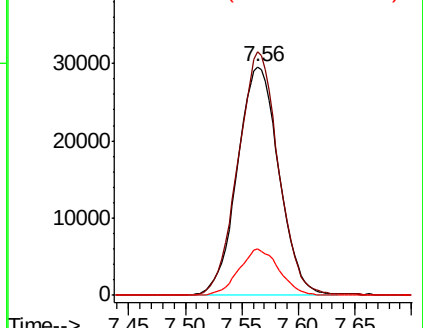
113 100

111 103.1 82.9 124.3

192 19.5 15.8 23.8



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: 4.903 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

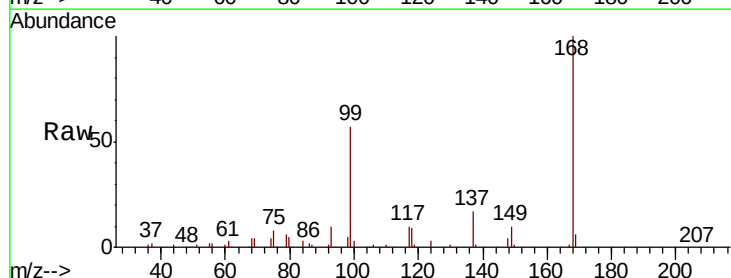
Tgt Ion: 75 Resp: 12102

Ion Ratio Lower Upper

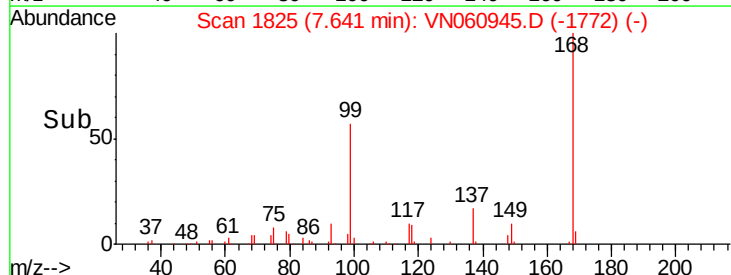
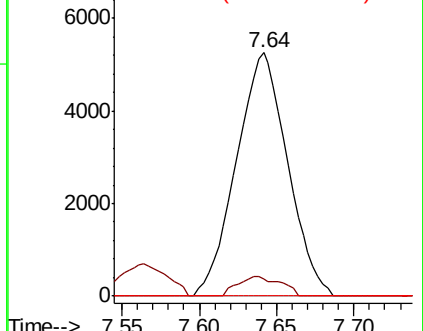
75 100

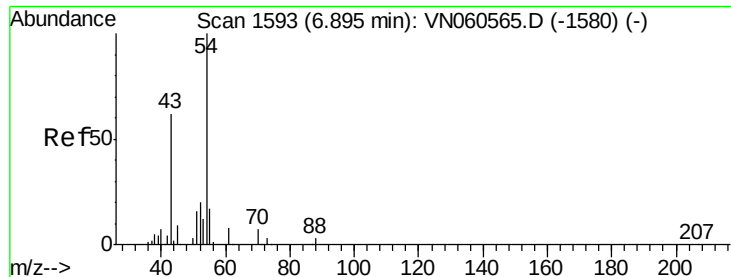
110 6.6 16.9 50.6#

77 0.0 24.6 36.8#



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

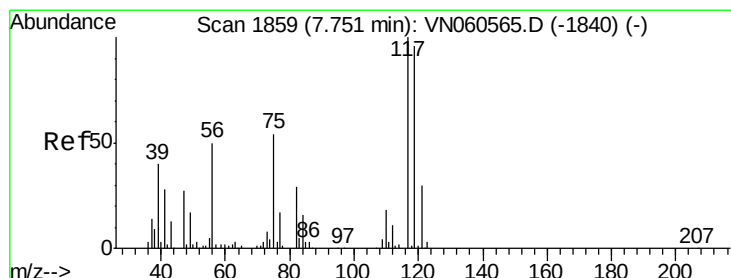
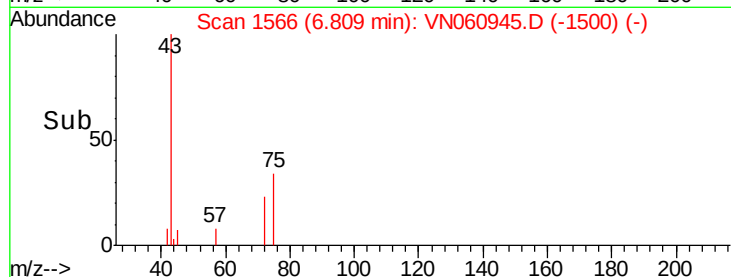
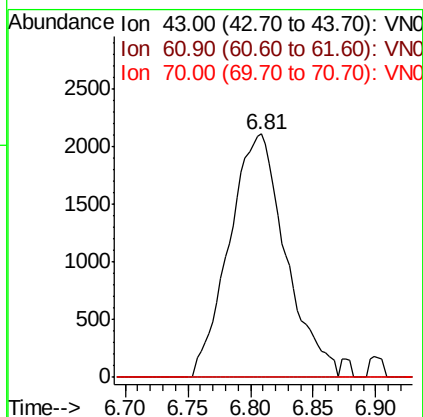
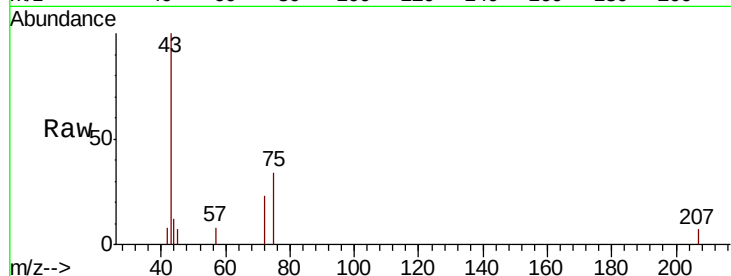




#37
Ethyl Acetate
Concen: 2.477 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

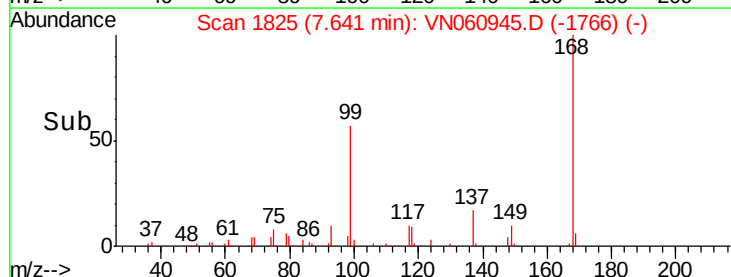
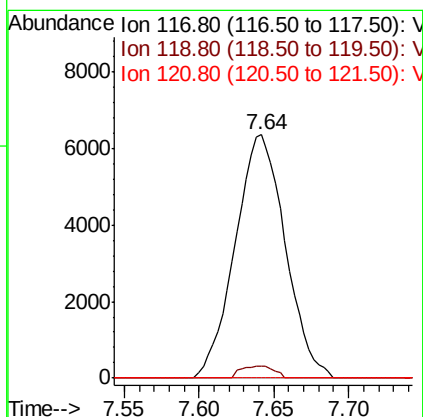
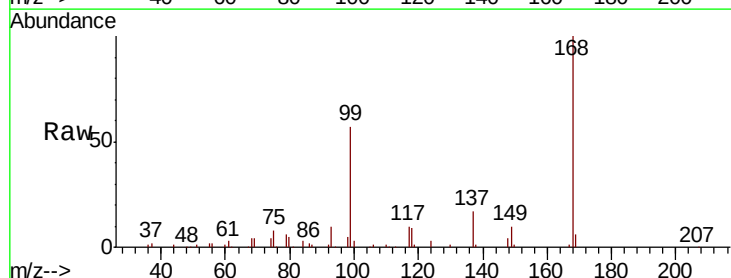
Instrument :
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TP-12-B

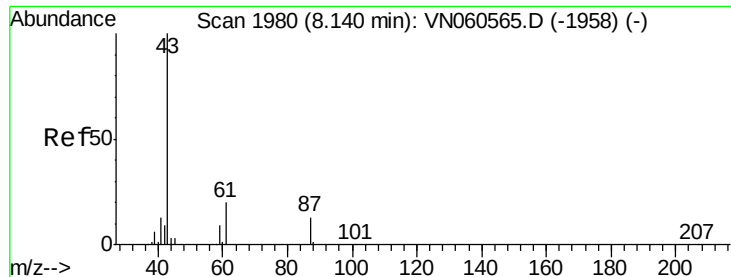
Tot Ion: 43 Resp: 6606
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.699 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

Tgt Ion: 117 Resp: 14820
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.679 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

TP-12-B

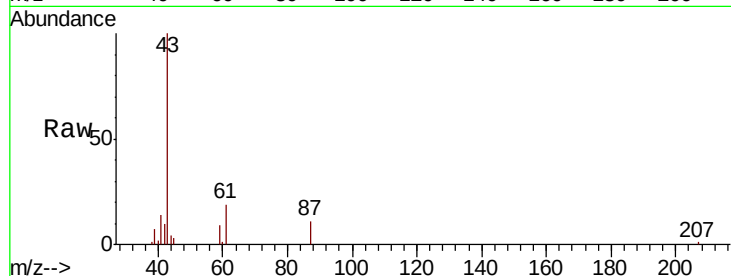
Tot Ion: 43 Resp: 42576

Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060945.D (-1979) (-)

Ion 61.00 (60.70 to 61.70): VN060945.D (-1979) (-)

Ion 87.00 (86.70 to 87.70): VN060945.D (-1979) (-)

8.14

25000

20000

15000

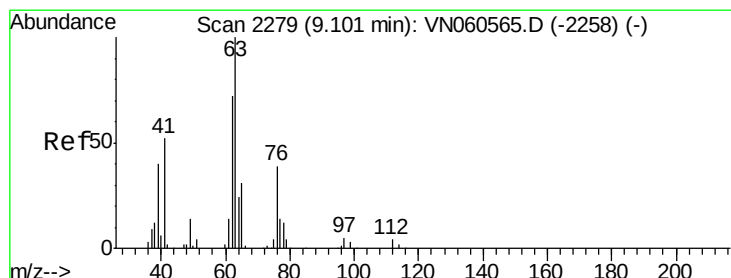
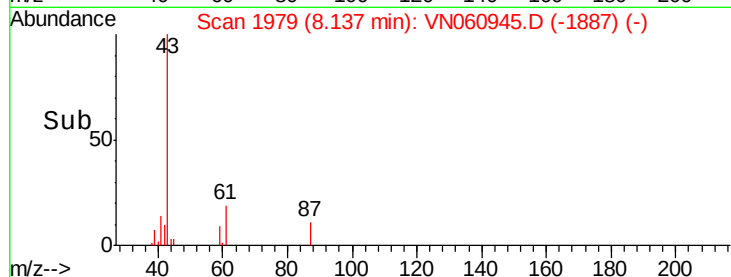
10000

5000

0

Time-->

8.05 8.10 8.15 8.20



#45

1,2-Dichloropropane

Concen: 0.310 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060945.D

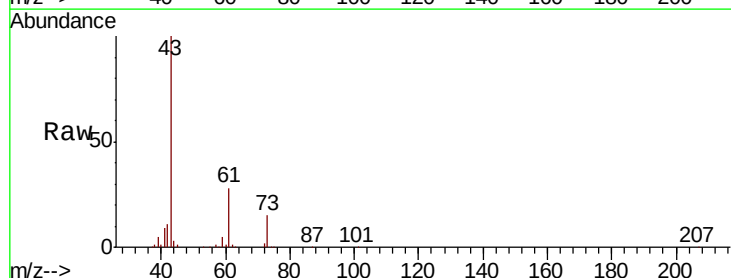
Acq: 14 Apr 2020 19:38

Tgt Ion: 63 Resp: 610

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060945.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060945.D (-2325) (-)

500

400

300

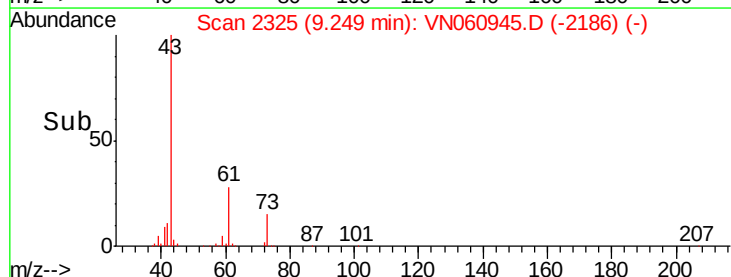
200

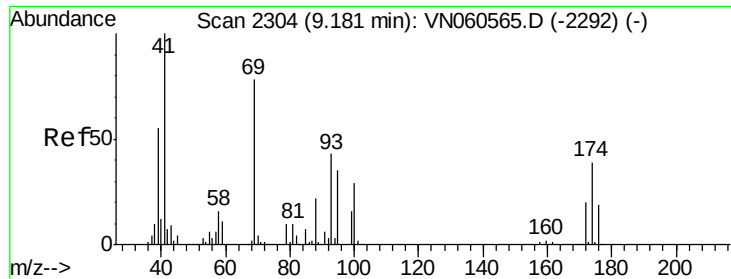
100

0

Time-->

9.22 9.24 9.26 9.28

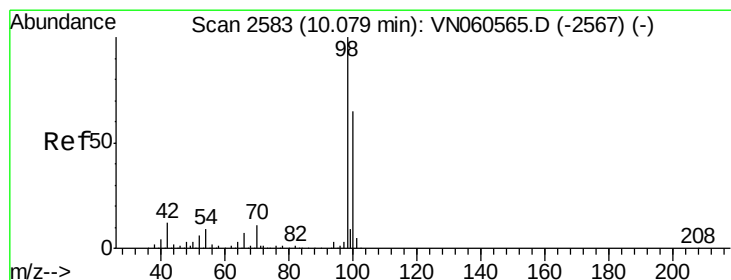
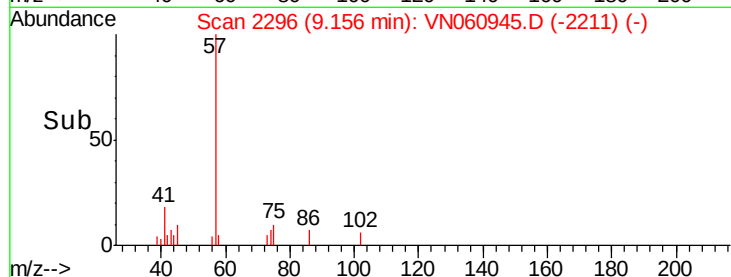
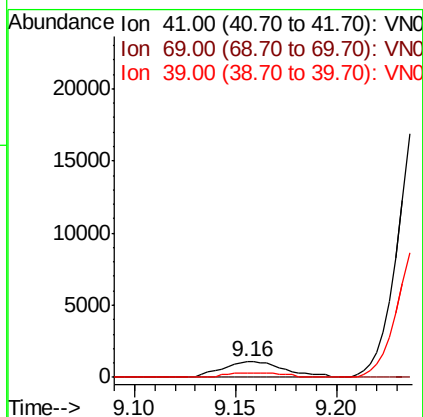
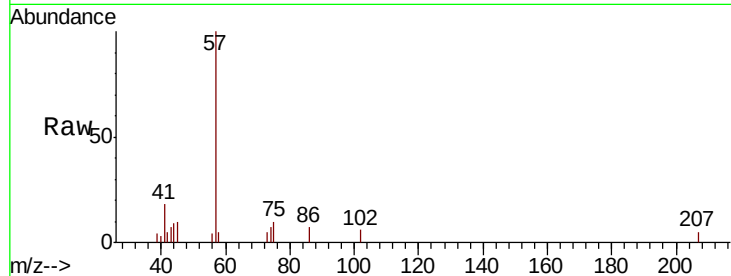




#48
Methvl methacrylate
Concen: 1.180 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

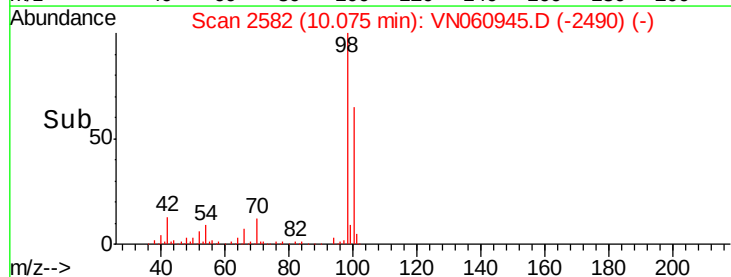
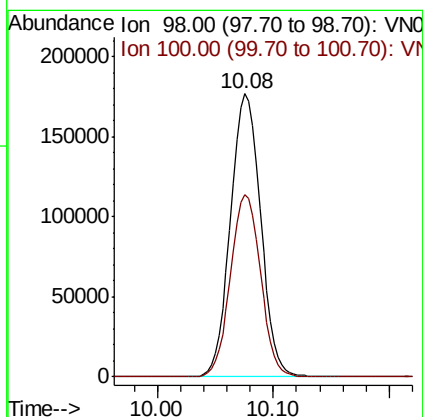
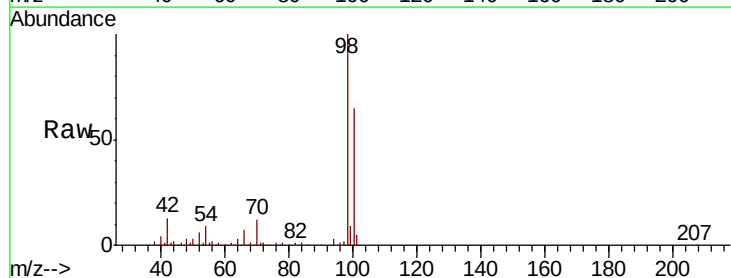
Instrument :
MSVOA_N
ClientSampled :
TP-12-B

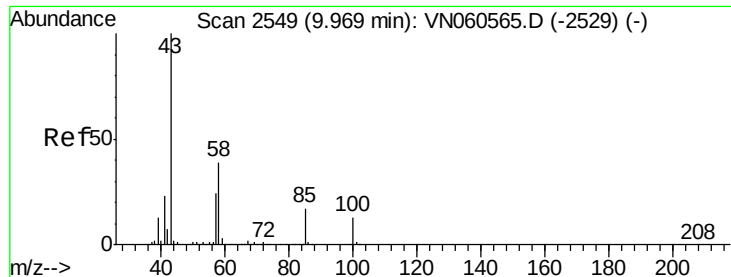
Tot Ion: 41 Resp: 2312
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.685 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

Tgt Ion: 98 Resp: 319132
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.477 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

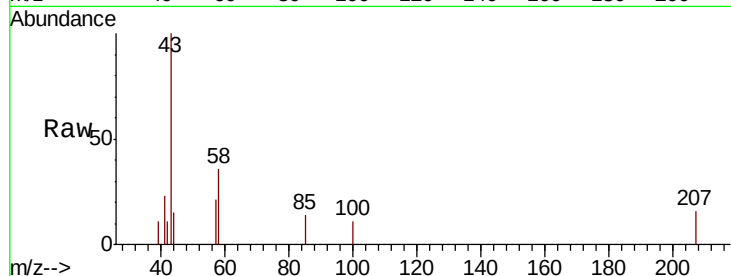
TP-12-B

Tot Ion: 43 Resp: 3696

Ion Ratio Lower Upper

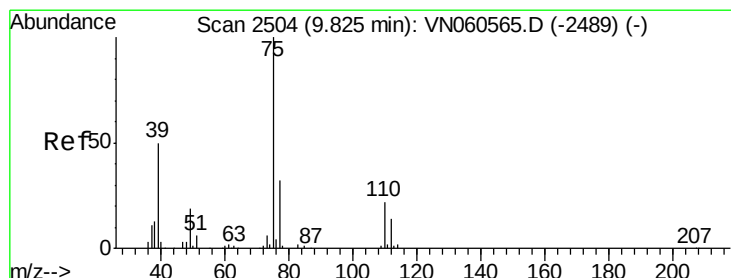
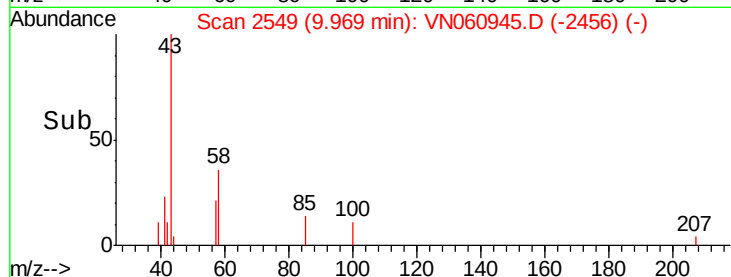
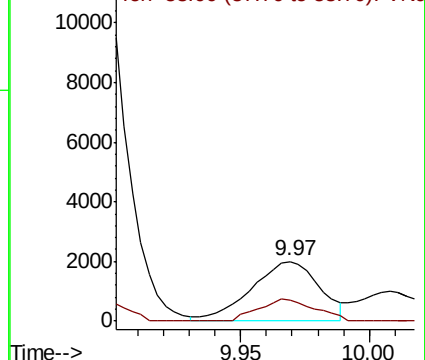
43 100

58 30.5 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.931 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

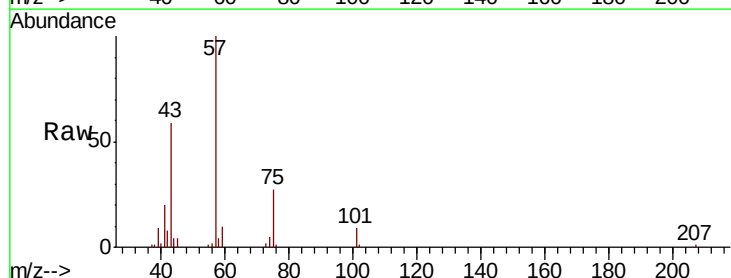
Tgt Ion: 75 Resp: 15349

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

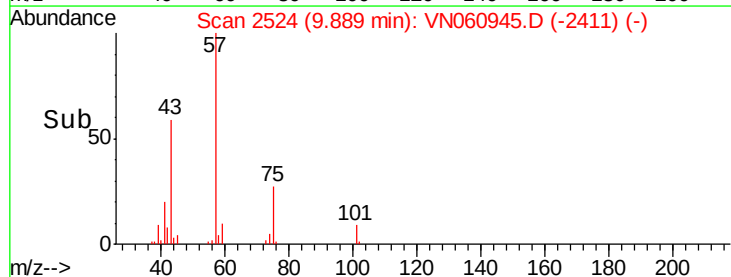
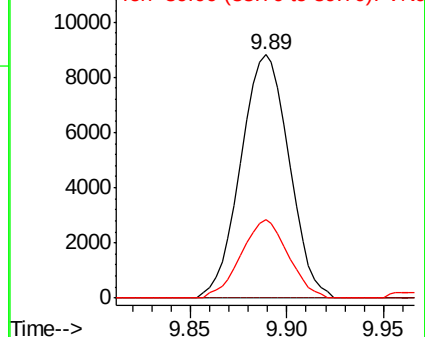
39 32.1 40.2 60.4#

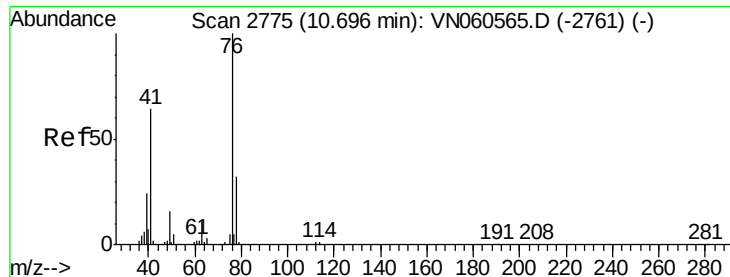


Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060565.D (-2489) (-)





#57

1,3-Dichloropropane

Concen: 0.548 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

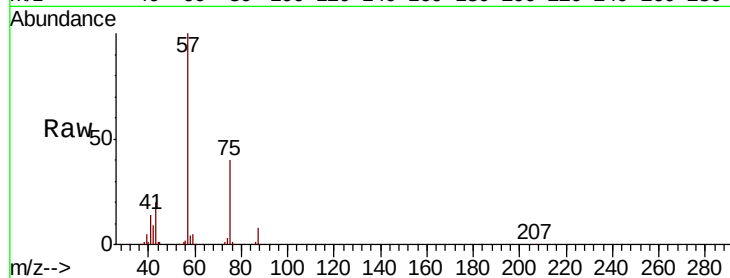
TP-12-B

Tot Ion: 76 Resp: 1646

Ion Ratio Lower Upper

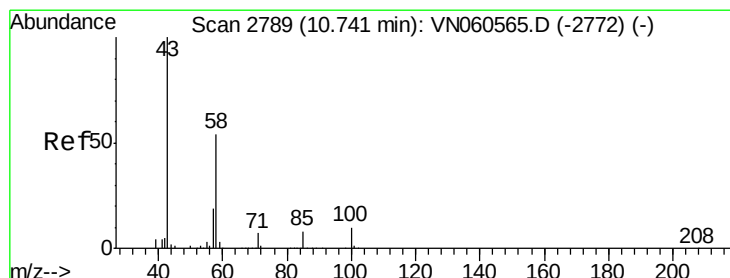
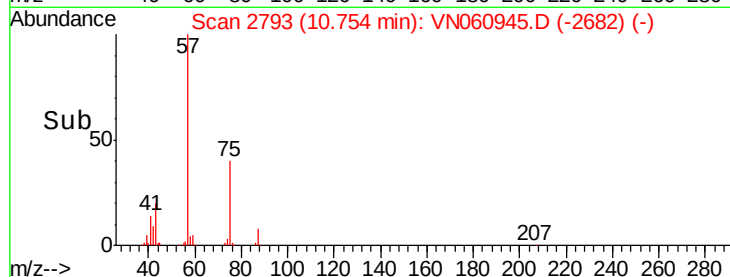
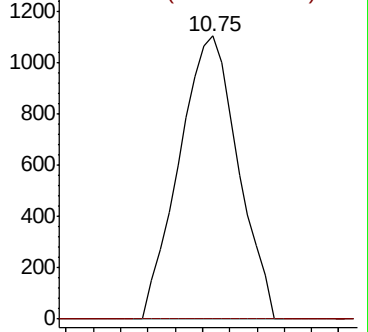
76 100

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: 14.644 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060945.D

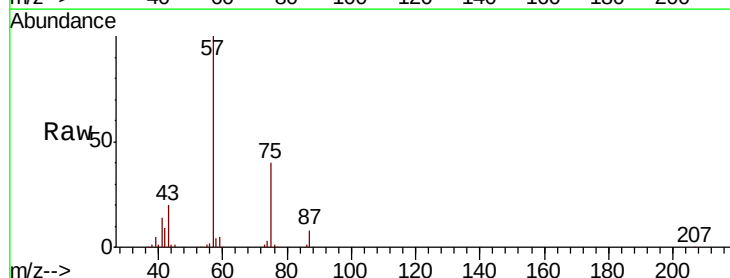
Acq: 14 Apr 2020 19:38

Tgt Ion: 43 Resp: 26406

Ion Ratio Lower Upper

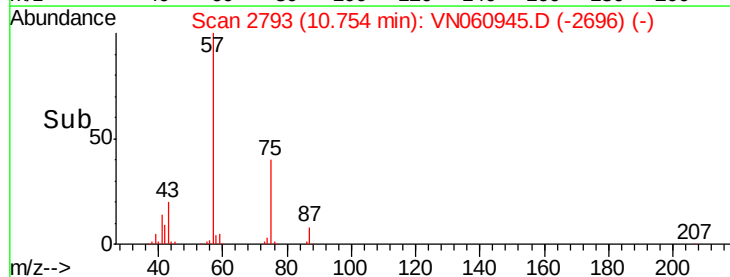
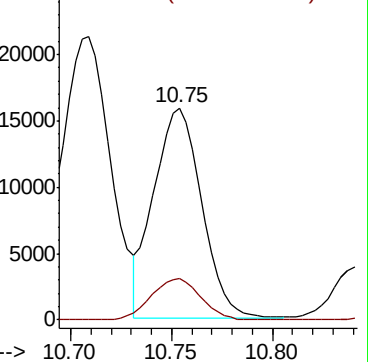
43 100

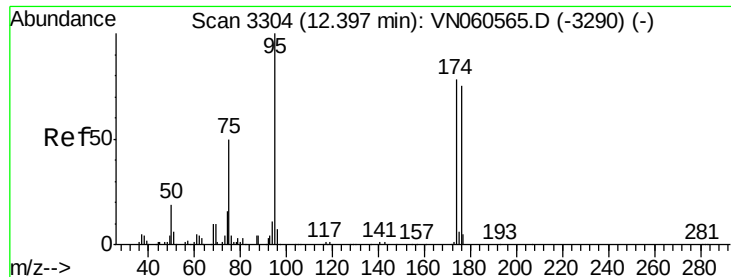
58 19.9 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.448 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

TP-12-B

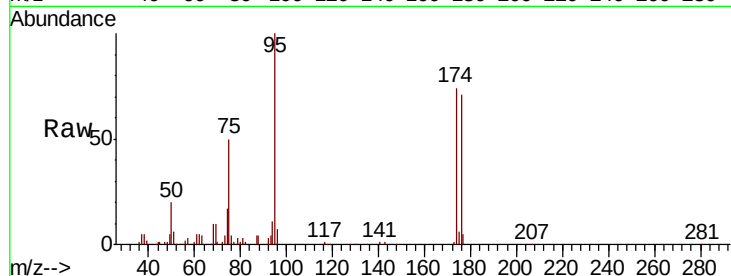
Tot Ion: 95 Resp: 121027

Ion Ratio Lower Upper

95 100

174 75.7 0.0 157.6

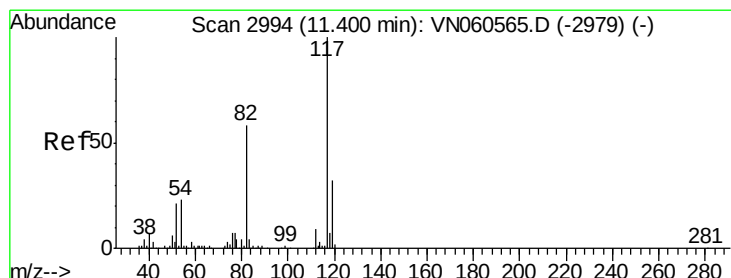
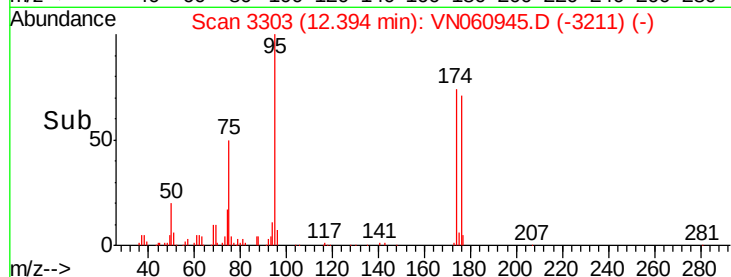
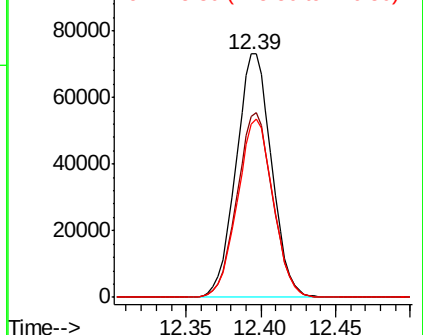
176 73.5 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060565.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060565.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060565.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

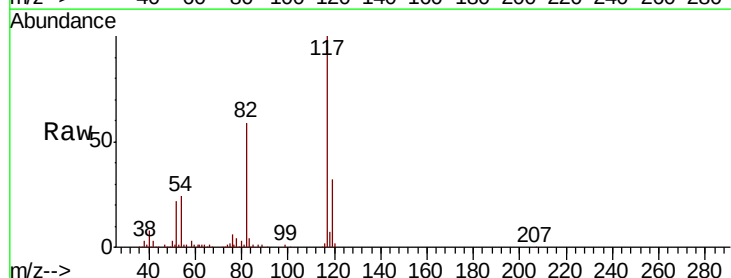
Tgt Ion: 117 Resp: 242048

Ion Ratio Lower Upper

117 100

82 59.4 46.7 70.1

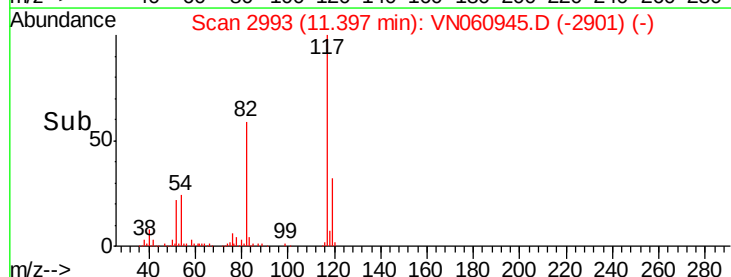
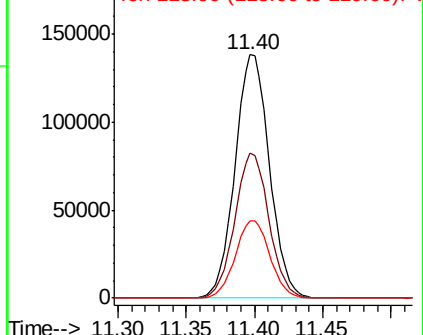
119 31.9 25.5 38.3

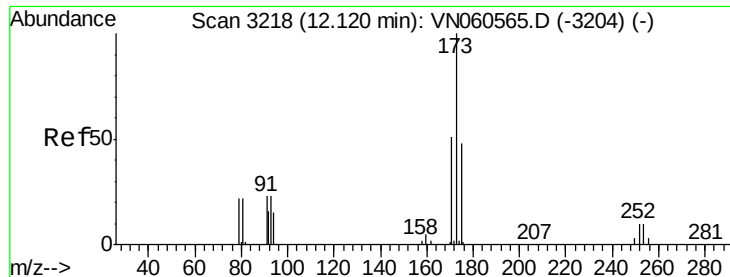


Abundance Ion 116.90 (116.60 to 117.60): VN060565.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060565.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060565.D (-2979) (-)





#71

Bromoform

Concen: 1.990 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

TP-12-B

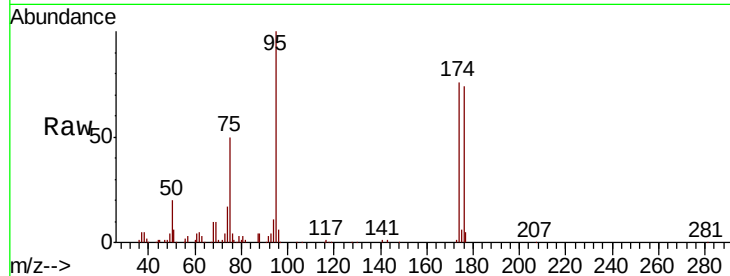
Tot Ion:173 Resp: 462

Ion Ratio Lower Upper

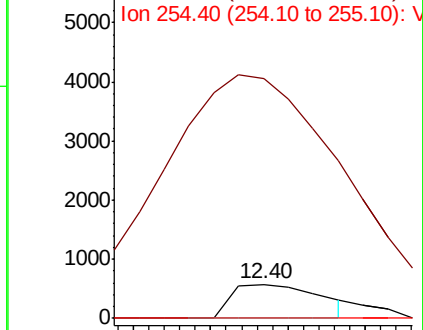
173 100

175 1306.1 24.1 72.4#

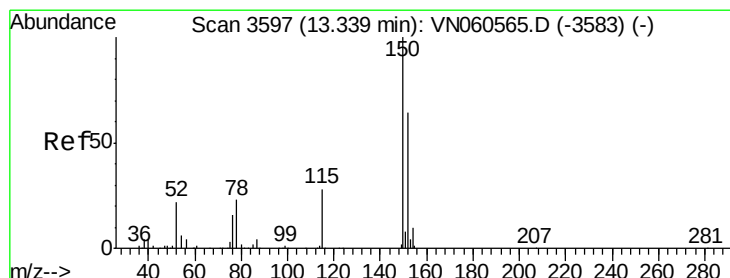
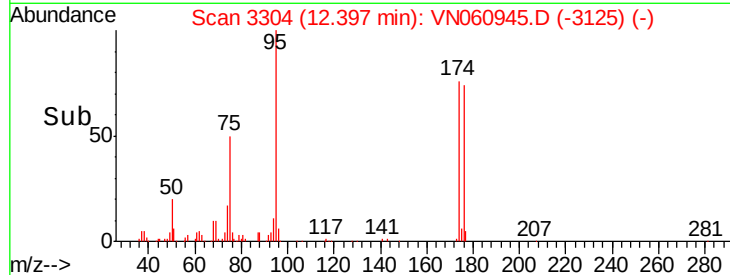
254 0.0 0.0 0.0



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



Time--> 12.38 12.39 12.40 12.41



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

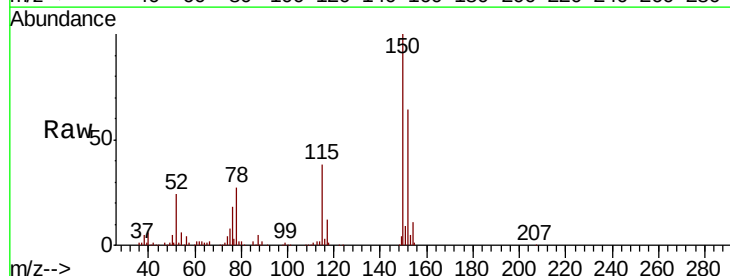
Tgt Ion:152 Resp: 111676

Ion Ratio Lower Upper

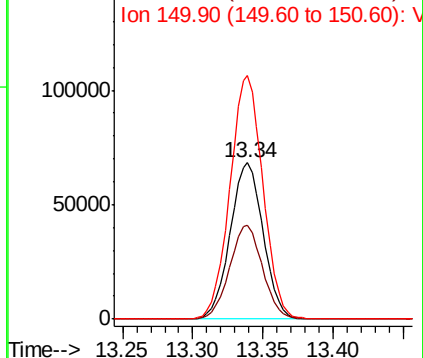
152 100

115 59.6 30.2 90.6

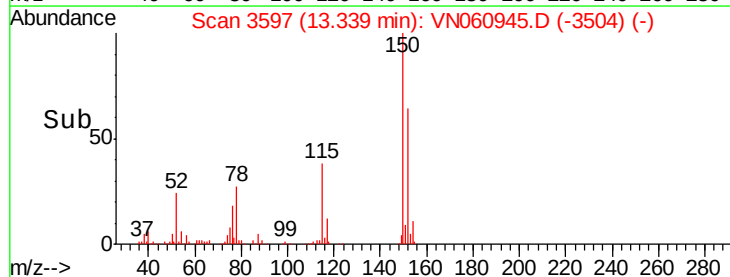
150 155.6 0.0 350.2

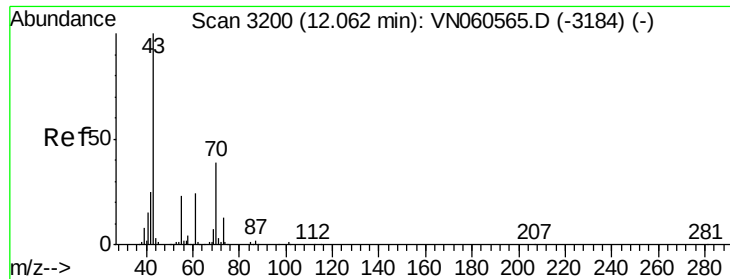


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time--> 13.25 13.30 13.35 13.40

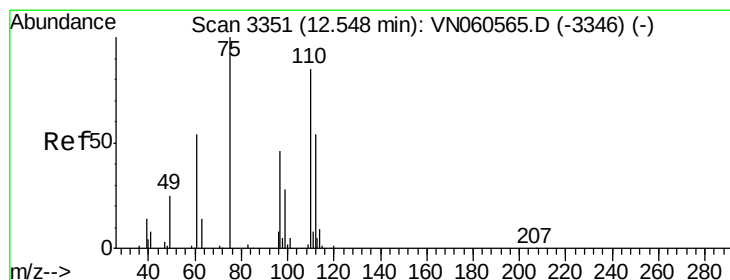
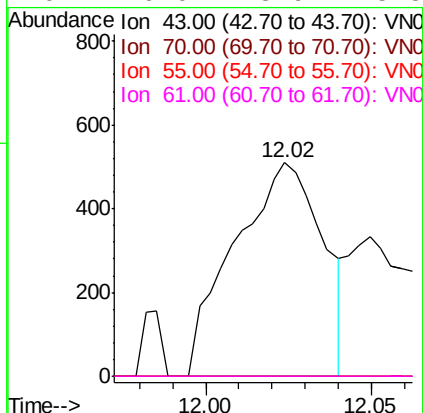
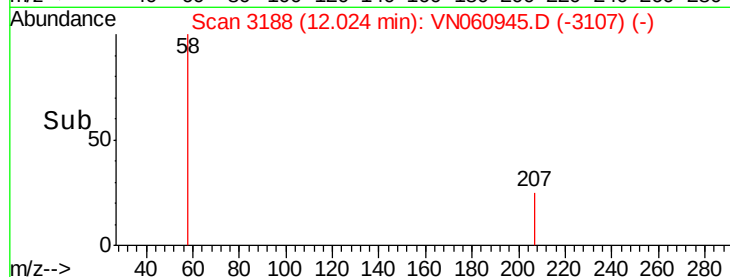
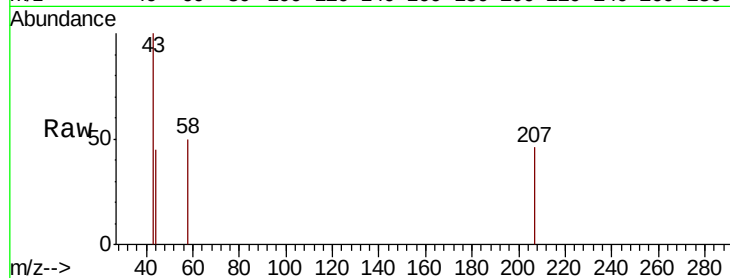




#74
N-amvl acetate
Concen: 0.244 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

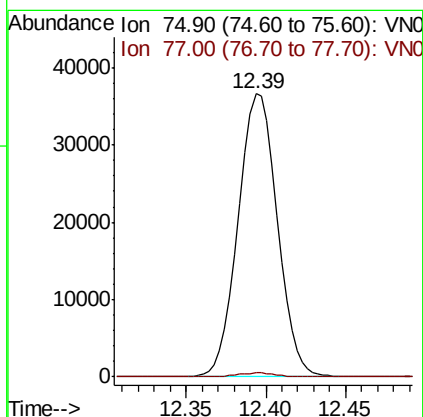
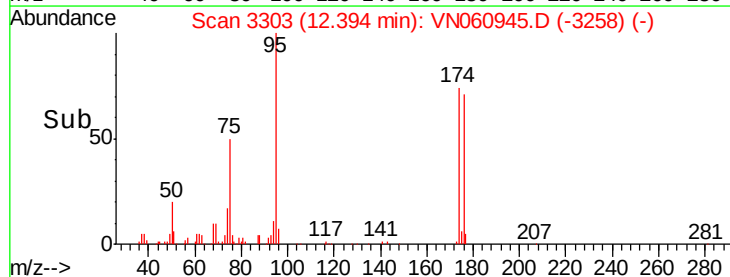
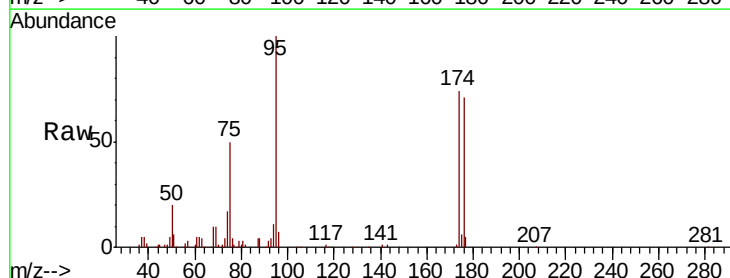
Instrument :
MSVOA_N
ClientSampleId :
TP-12-B

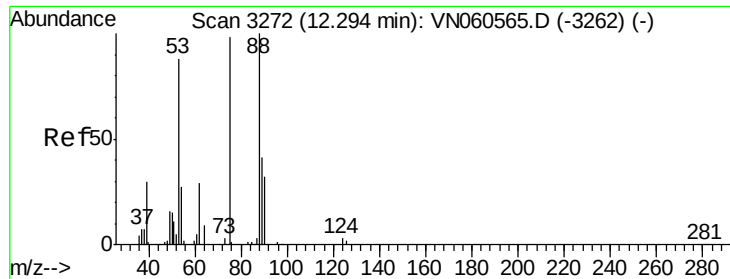
Tot Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 0.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 25.379 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.15 min
Lab File: VN060945.D
Acq: 14 Apr 2020 19:38

Tgt Ion: 75 Resp: 61156
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.180 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060945.D

Acq: 14 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

TP-12-B

Tot Ion: 75 Resp: 61156

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

