

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060540.D
 Acq On : 16 Mar 2020 21:39
 Operator : JC/MD
 Sample : L1942-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5-SA

Quant Time: Mar 17 08:49:01 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	215122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	357729	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	334999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151948	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	139792	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	7.56	113	105571	63.58	ug/l	0.00
Spiked Amount			Recovery	=	127.16%	
50) Toluene-d8	10.08	98	438490	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	12.40	95	165699	52.01	ug/l	0.00
Spiked Amount			Recovery	=	104.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	13434	15.072	ug/l	98
18) Methyl Acetate	4.30	43	1641	0.552	ug/l #	56
20) Methylene Chloride	4.52	84	8130	3.321	ug/l	97
25) 2-Butanone	6.81	43	2419	1.680	ug/l	98
29) Tetrahydrofuran	7.19	42	210	0.210	ug/l #	33
31) Cyclohexane	7.64	56	4519	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16861	4.946	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20545	6.189	ug/l #	17
43) Isopropyl Acetate	8.14	43	61975	10.966	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1046	0.403	ug/l #	44
48) Methyl methacrylate	9.16	41	3387	1.314	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5288	1.650	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	26020	5.985	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3843	0.940	ug/l #	42
59) 2-Hexanone	10.75	43	57854	24.591	ug/l #	52
71) Bromoform	12.40	173	569	0.316	ug/l #	1
74) N-amyl acetate	12.03	43	2923	0.594	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	83100	24.927	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	83100	68.810	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.51	75	160	0.231	ug/l #	3

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

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ClientSampleId :

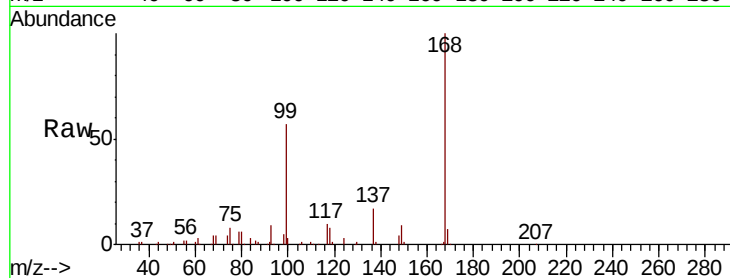
TP-5-SA

Tot Ion:168 Resp: 215122

Ion Ratio Lower Upper

168 100

99 57.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

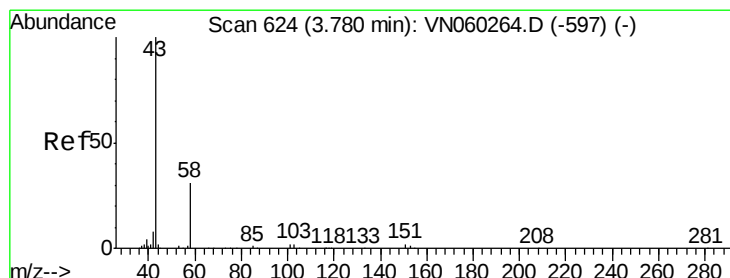
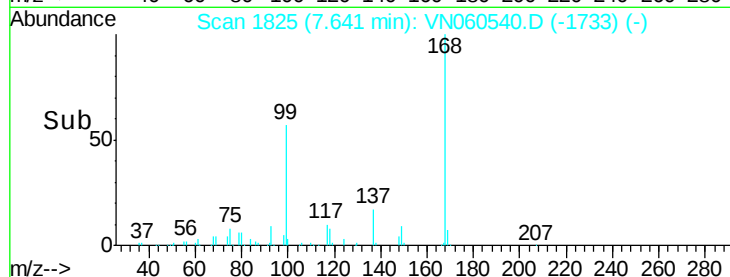
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 15.072 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060540.D

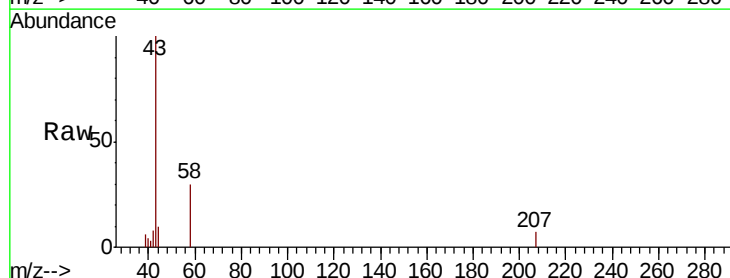
Acq: 16 Mar 2020 21:39

Tgt Ion: 43 Resp: 13434

Ion Ratio Lower Upper

43 100

58 29.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

3000

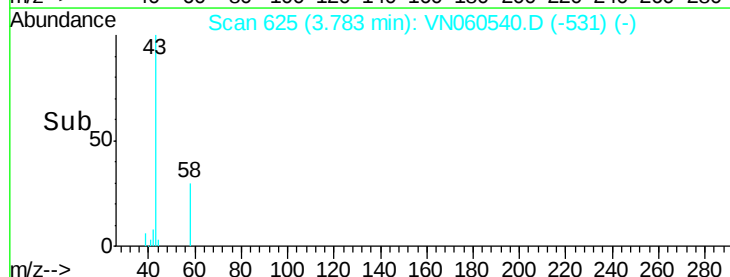
2000

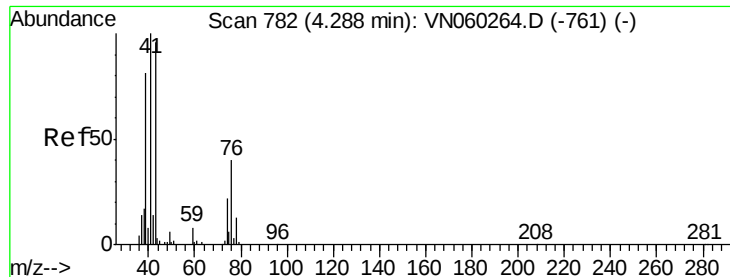
1000

0

3.70 3.80 3.90

Time-->

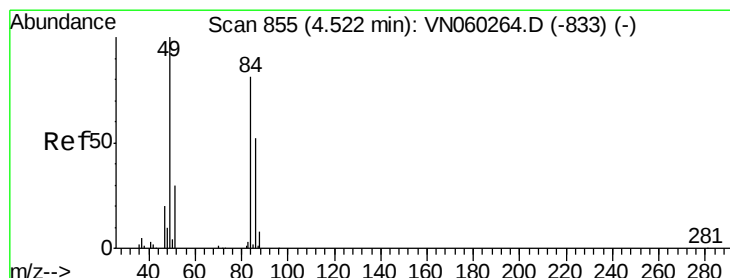
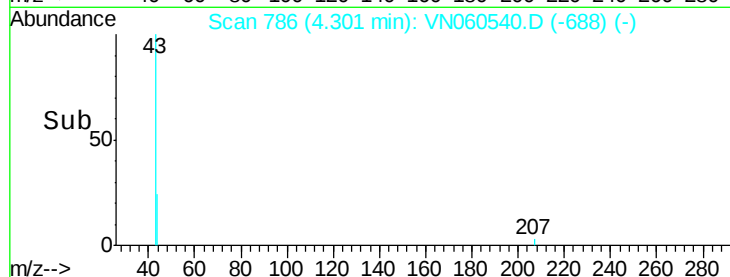
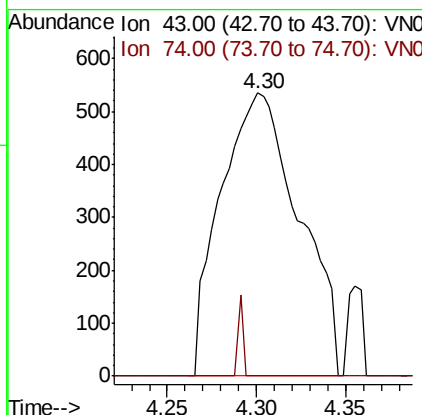
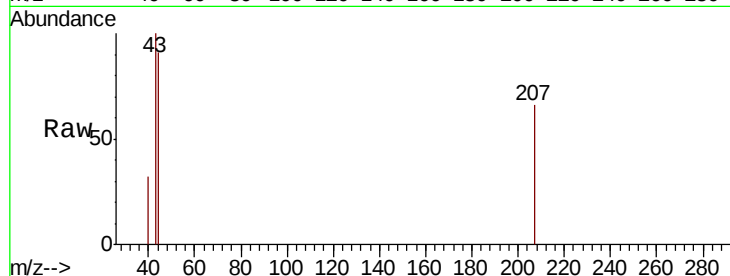




#18
Methvl Acetate
Concen: 0.552 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060540.D
Acq: 16 Mar 2020 21:39

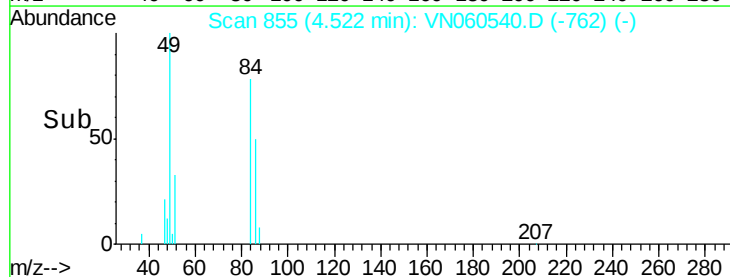
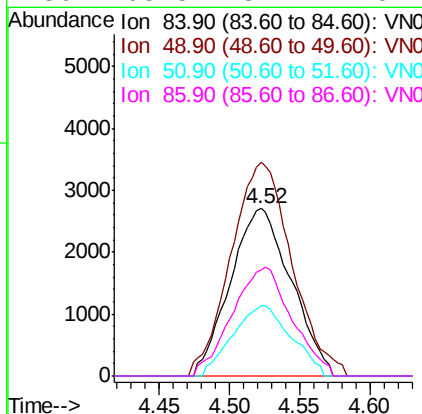
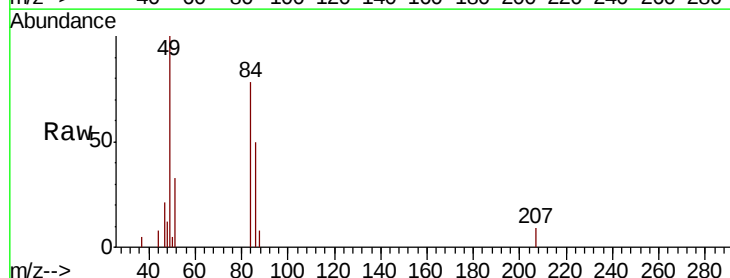
Instrument :
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ClientSampleId :
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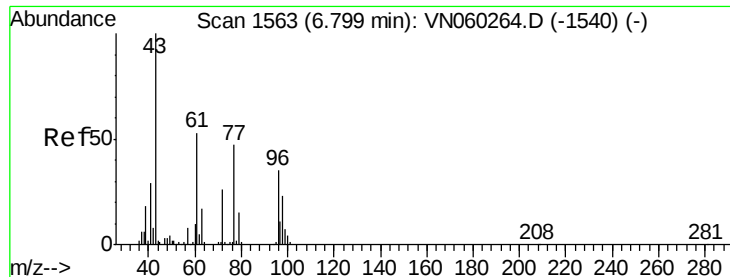
Tot Ion: 43 Resp: 1641
Ion Ratio Lower Upper
43 100
74 1.8 18.8 28.2#



#20
Methylene Chloride
Concen: 3.321 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060540.D
Acq: 16 Mar 2020 21:39

Tgt Ion: 84 Resp: 8130
Ion Ratio Lower Upper
84 100
49 127.7 99.3 148.9
51 41.8 30.1 45.1
86 63.5 51.1 76.7

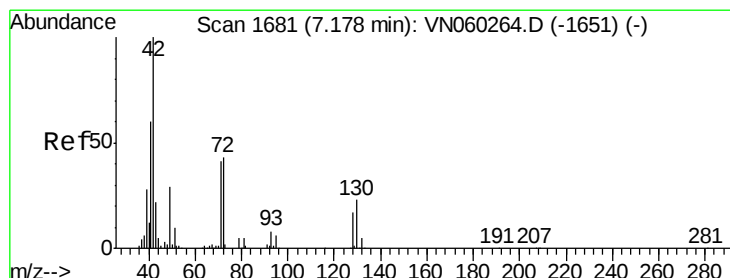
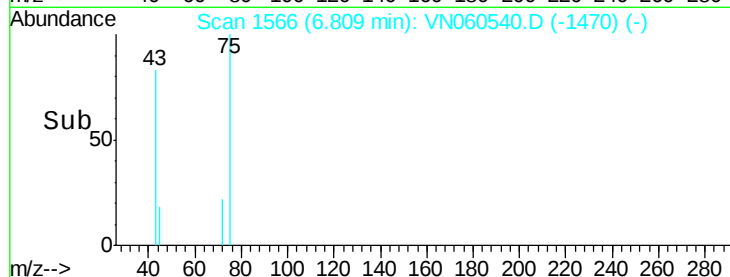
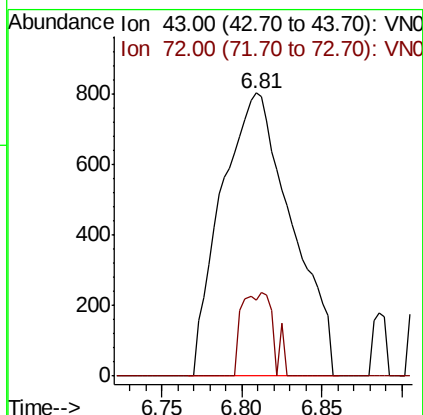
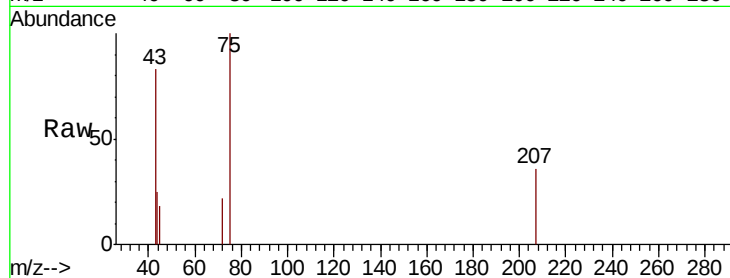




#25
2-Butanone
Concen: 1.680 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060540.D
Acq: 16 Mar 2020 21:39

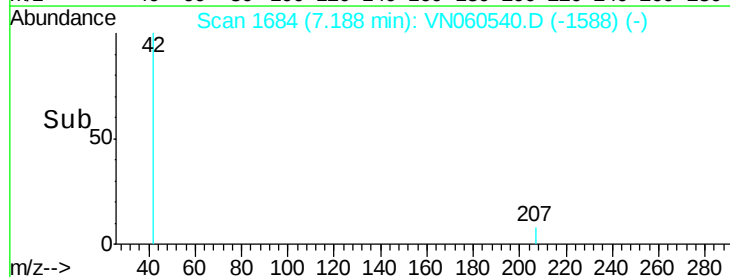
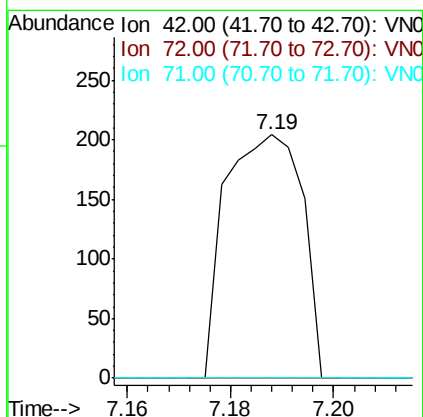
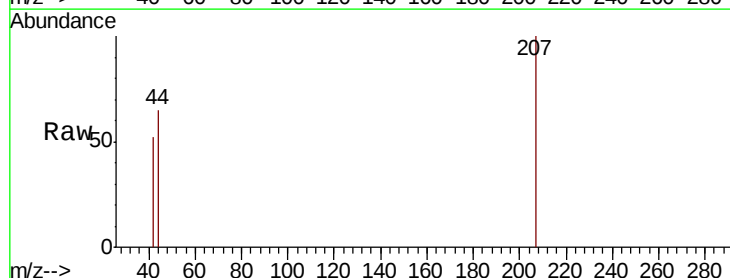
Instrument :
MSVOA_N
ClientSampleId :
TP-5-SA

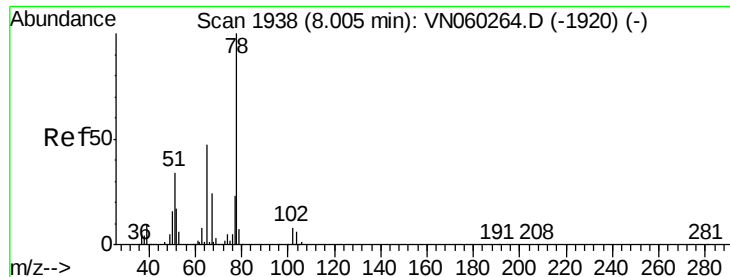
Tot Ion: 43 Resp: 2419
Ion Ratio Lower Upper
43 100
72 27.0 20.9 31.3



#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060540.D
Acq: 16 Mar 2020 21:39

Tgt Ion: 42 Resp: 210
Ion Ratio Lower Upper
42 100
72 0.0 34.6 52.0#
71 0.0 32.9 49.3#

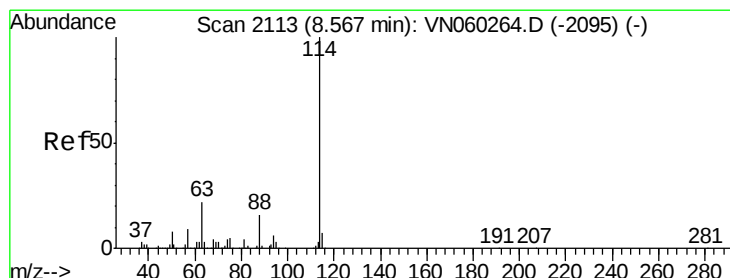
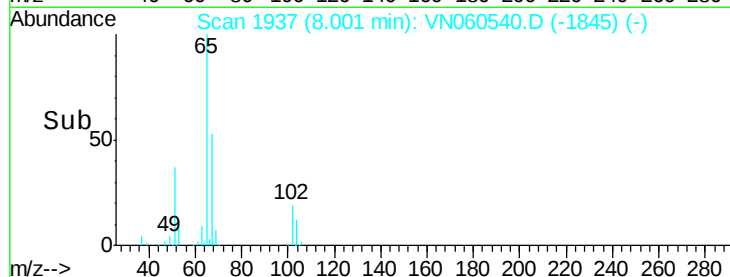
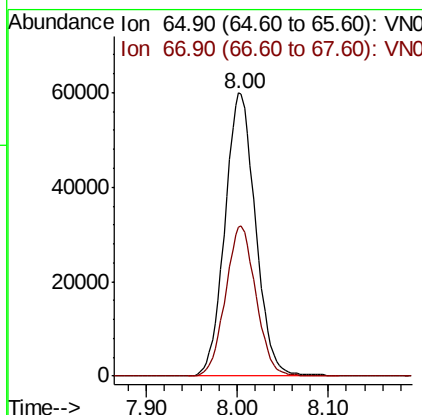
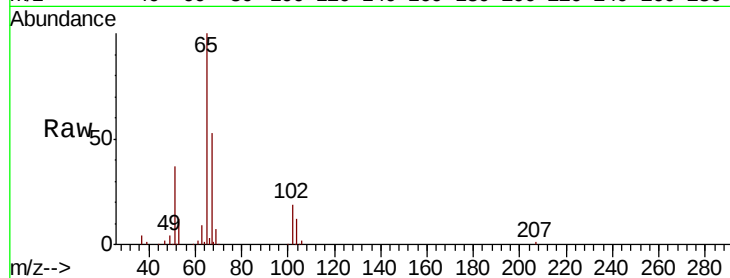




#33
 1,2-Dichloroethane-d4
 Concen: 50.648 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

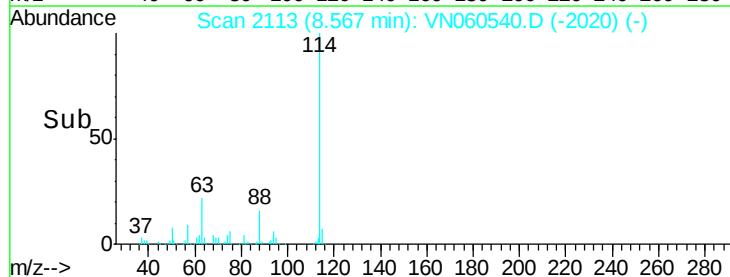
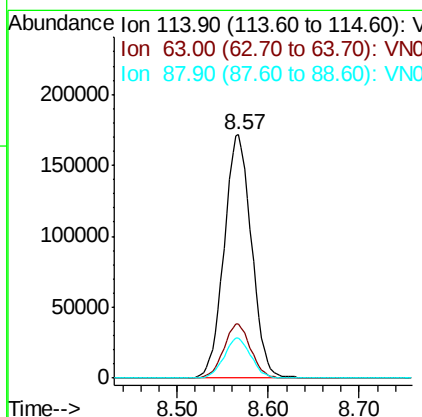
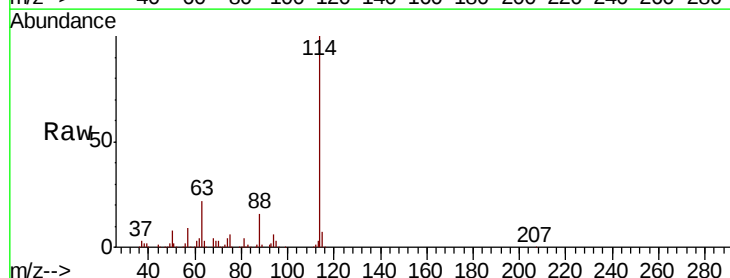
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5-SA

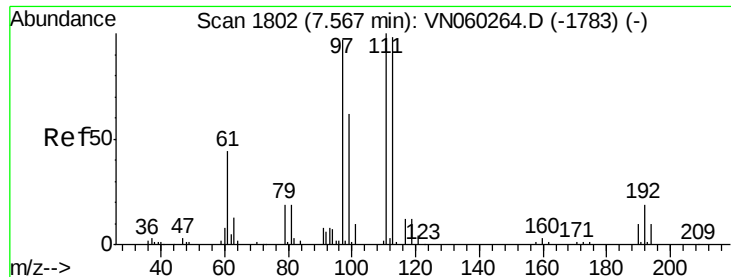
Tot Ion: 65 Resp: 139792
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

Tgt Ion: 114 Resp: 357729
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 16.3 0.0 31.6

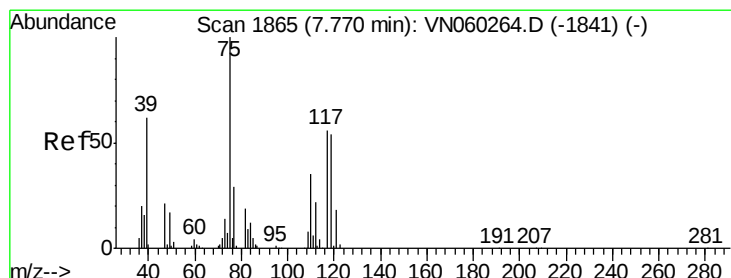
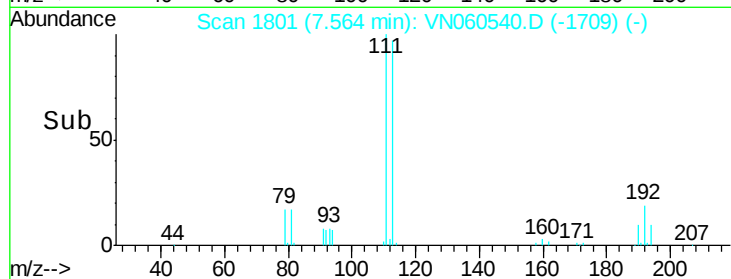
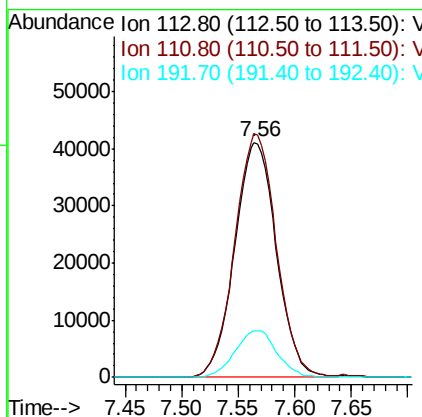
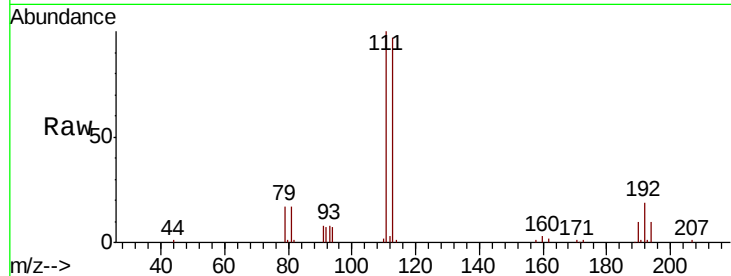




#35
 Dibromofluoromethane
 Concen: 63.579 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

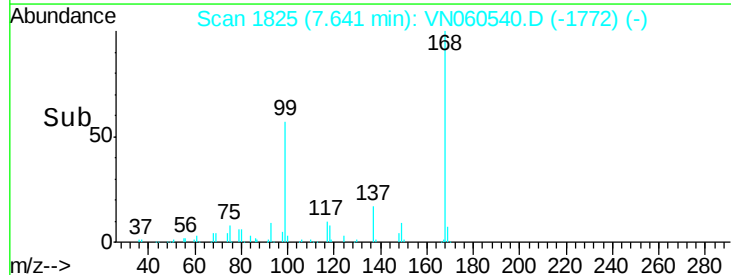
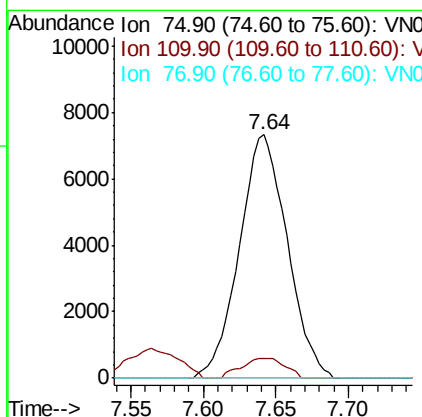
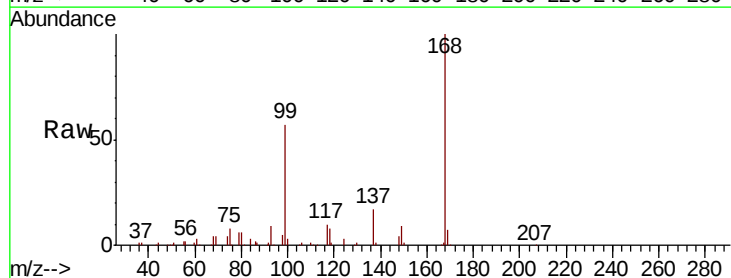
Instrument :
 MSVOA_N
 ClientSampled :
 TP-5-SA

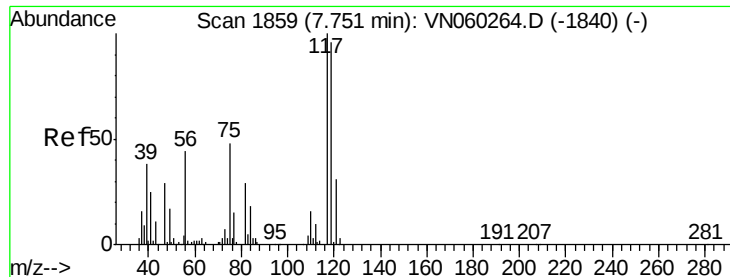
Tot Ion:113 Resp: 105571
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.4 123.6
 192 19.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.946 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

Tgt Ion: 75 Resp: 16861
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.3 52.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.189 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

TP-5-SA

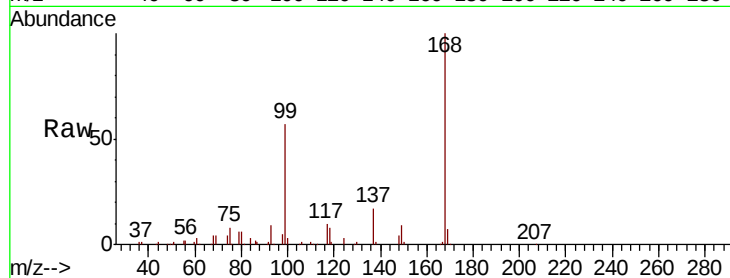
Tot Ion:117 Resp: 20545

Ion Ratio Lower Upper

117 100

119 5.9 76.7 115.1#

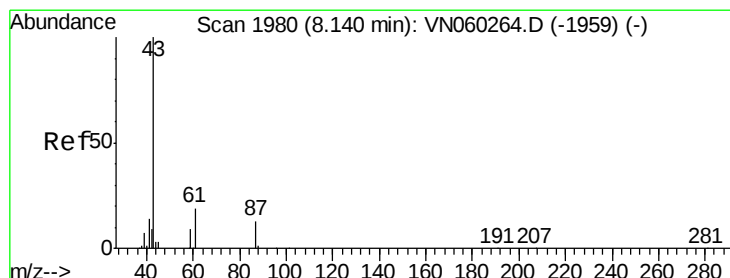
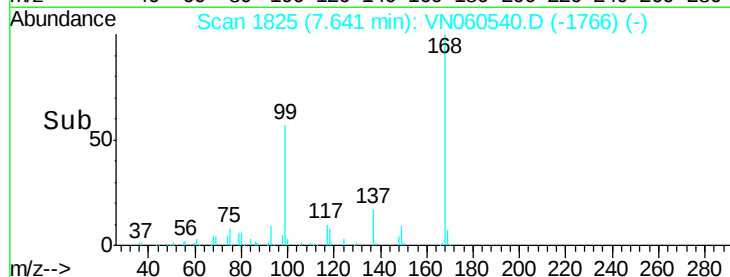
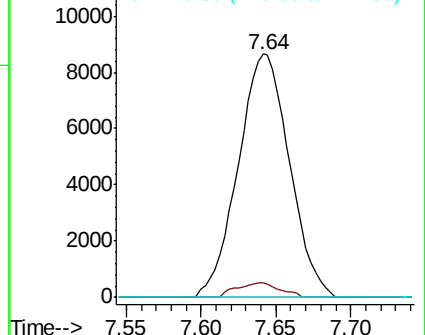
121 0.0 24.5 36.7#



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: 10.966 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

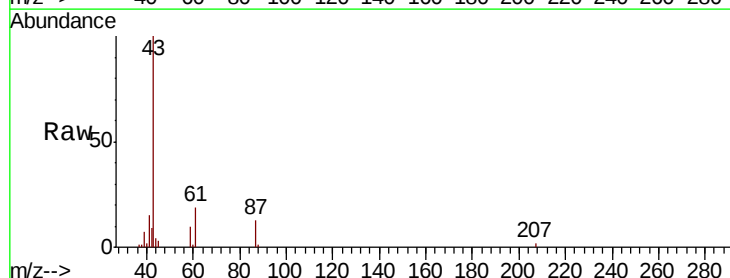
Tgt Ion: 43 Resp: 61975

Ion Ratio Lower Upper

43 100

61 18.7 20.9 31.3#

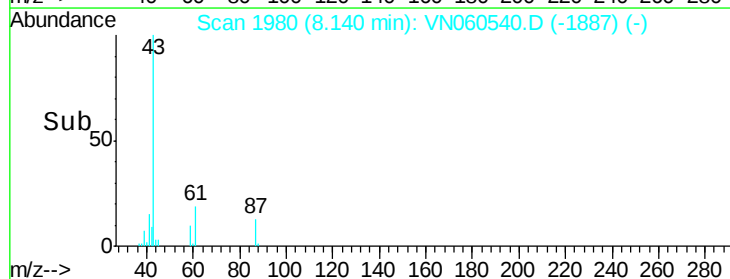
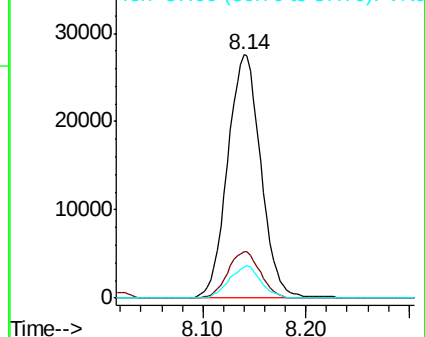
87 12.5 10.6 16.0

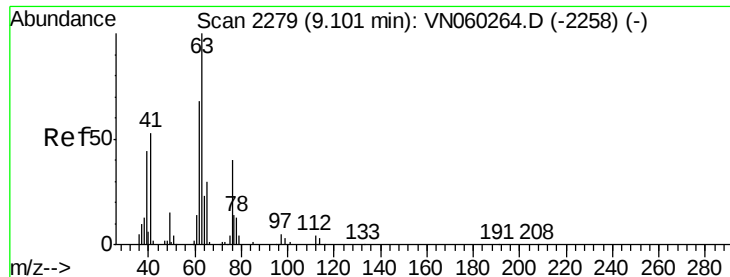


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.403 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

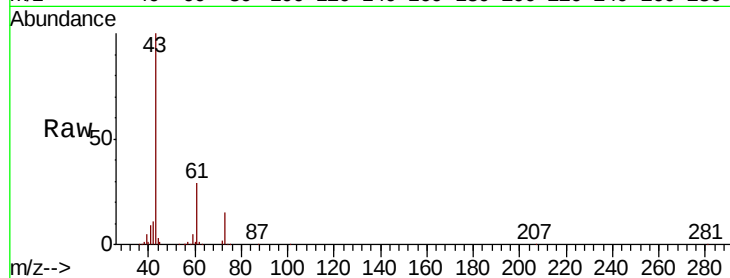
TP-5-SA

Tot Ion: 63 Resp: 1046

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.25

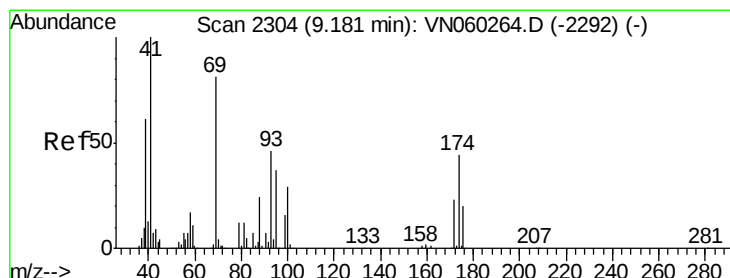
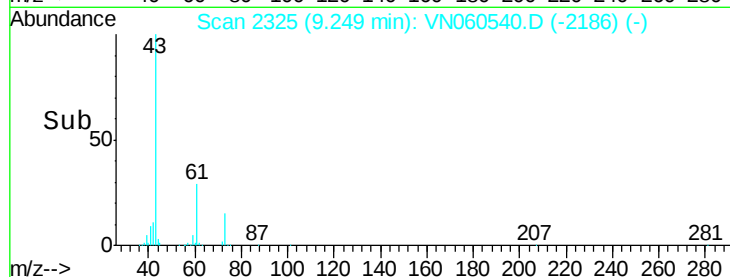
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.314 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

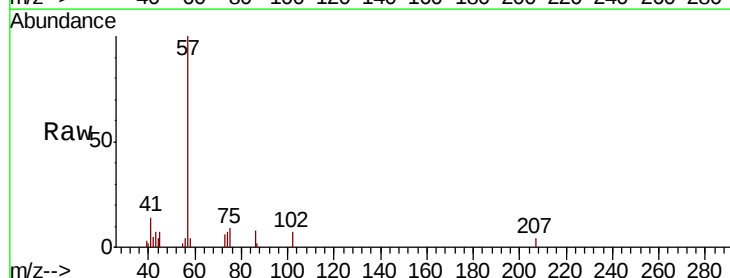
Tgt Ion: 41 Resp: 3387

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

40000

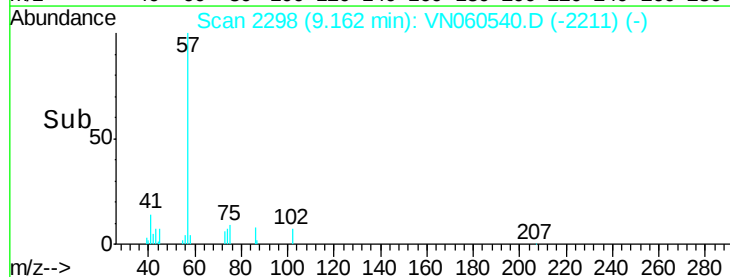
30000

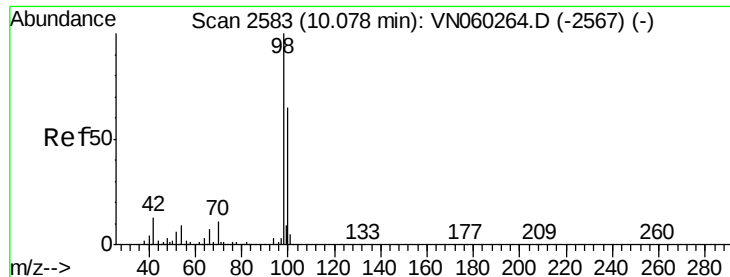
20000

10000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 52.177 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampled :

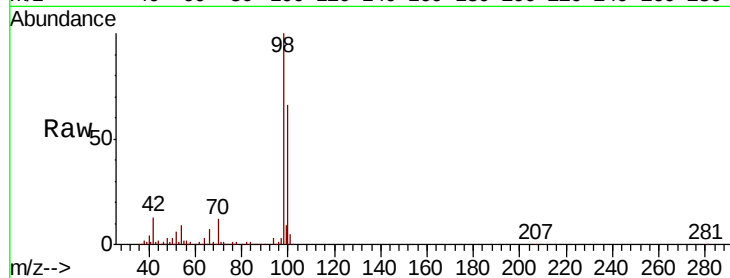
TP-5-SA

Tot Ion: 98 Resp: 438490

Ion Ratio Lower Upper

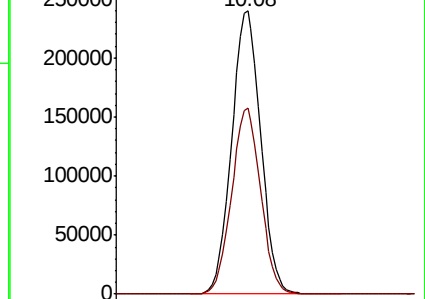
98 100

100 65.6 52.2 78.2

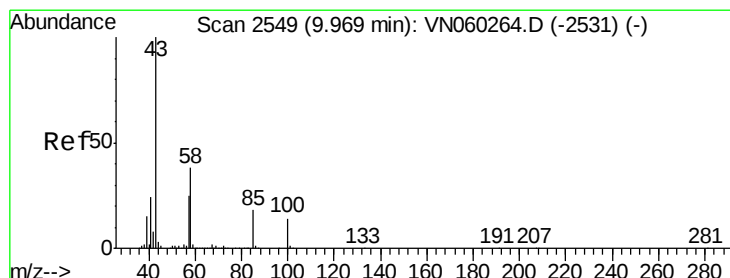
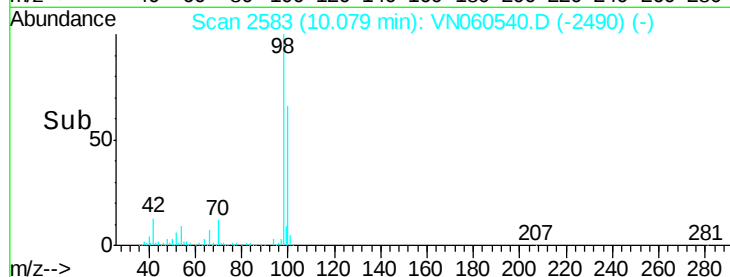


Abundance Ion 98.00 (97.70 to 98.70): VN060540.D (-2490) (-)

Ion 100.00 (99.70 to 100.70): VN060540.D (-2490) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.650 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060540.D

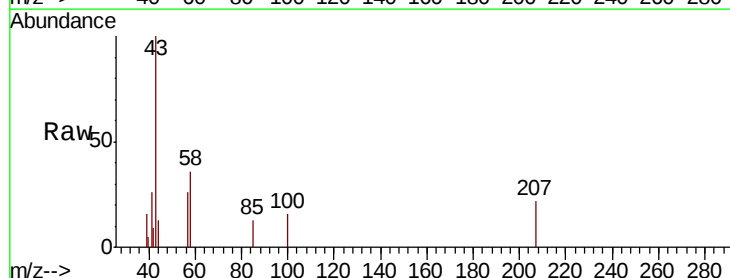
Acq: 16 Mar 2020 21:39

Tgt Ion: 43 Resp: 5288

Ion Ratio Lower Upper

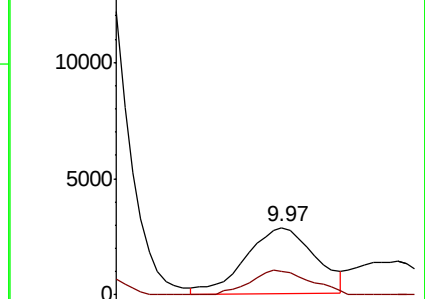
43 100

58 32.9 30.9 46.3

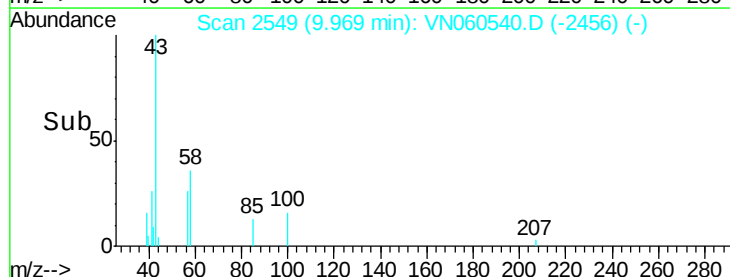


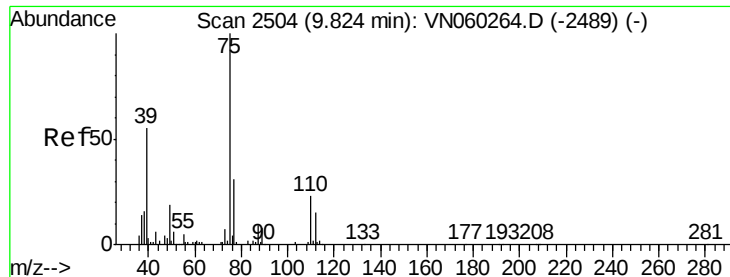
Abundance Ion 43.00 (42.70 to 43.70): VN060540.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060540.D (-2456) (-)



Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.985 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

TP-5-SA

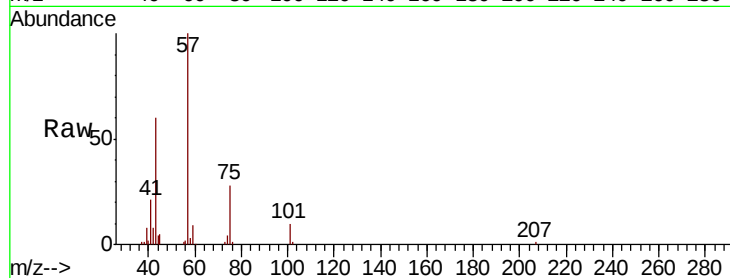
Tot Ion: 75 Resp: 26020

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

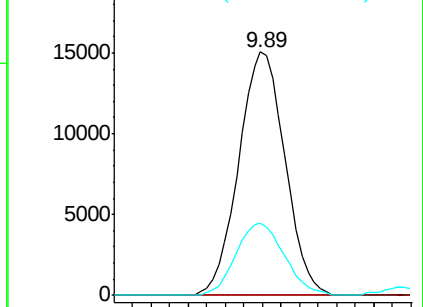
39 29.5 43.8 65.8#



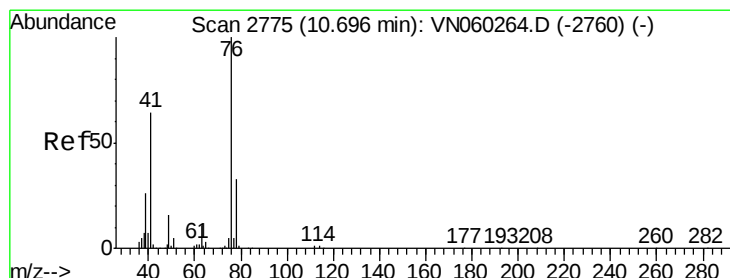
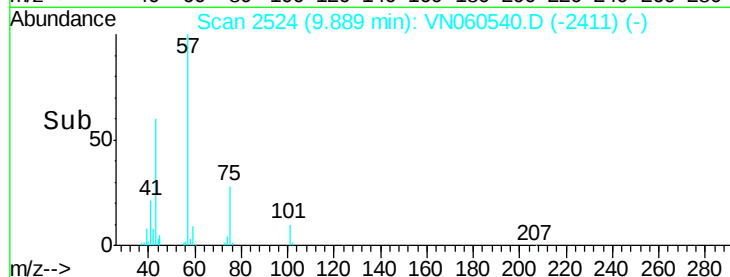
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->



#57

1,3-Dichloropropane

Concen: 0.940 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060540.D

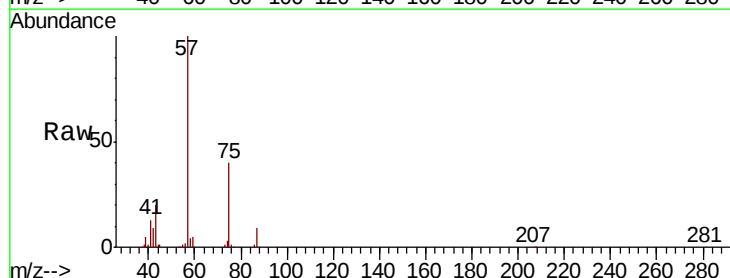
Acq: 16 Mar 2020 21:39

Tgt Ion: 76 Resp: 3843

Ion Ratio Lower Upper

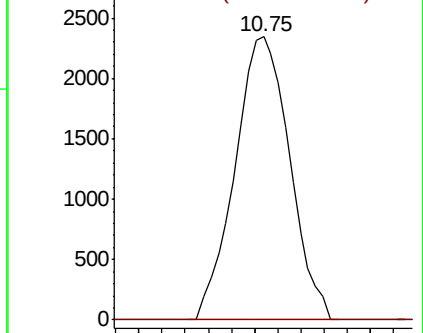
76 100

78 0.0 26.2 39.2#

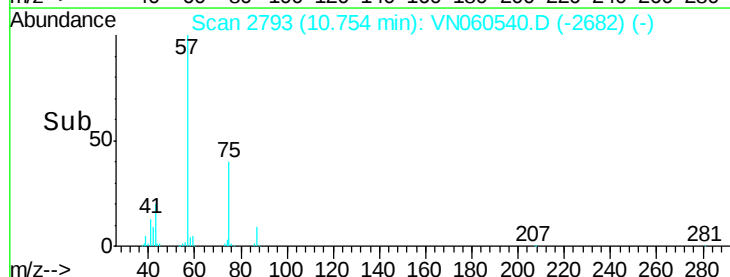


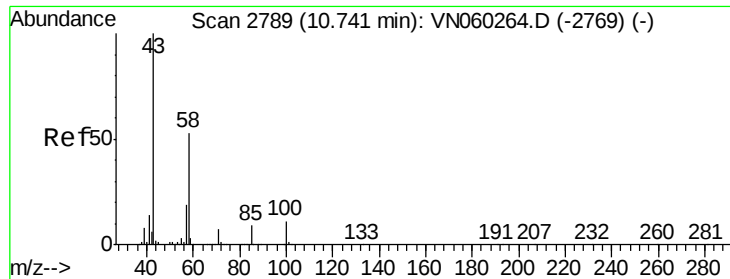
Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->





#59

2-Hexanone

Concen: 24.591 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

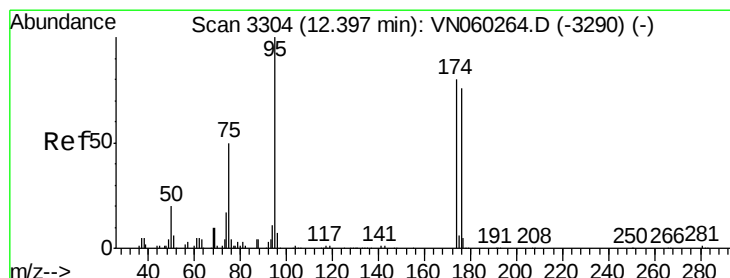
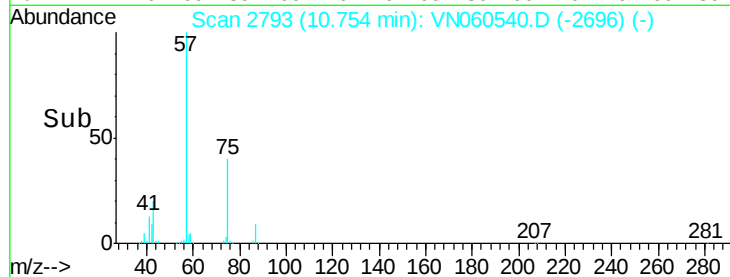
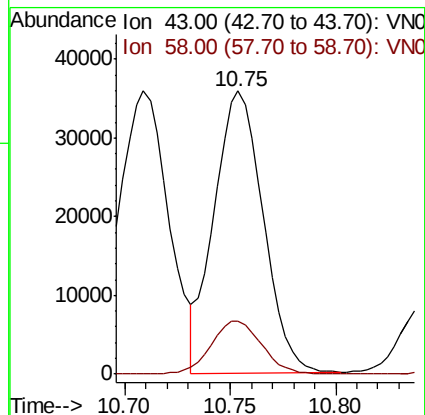
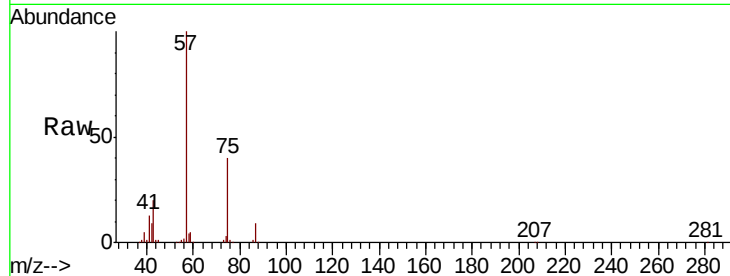
TP-5-SA

Tot Ion: 43 Resp: 57854

Ion Ratio Lower Upper

43 100

58 19.3 26.5 79.5#



#62

4-Bromofluorobenzene

Concen: 52.014 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

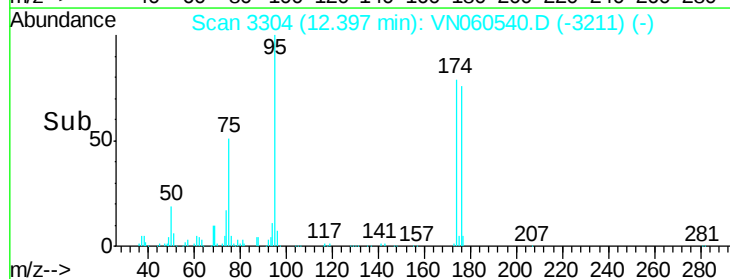
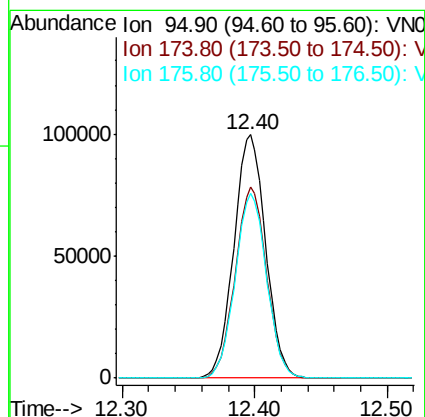
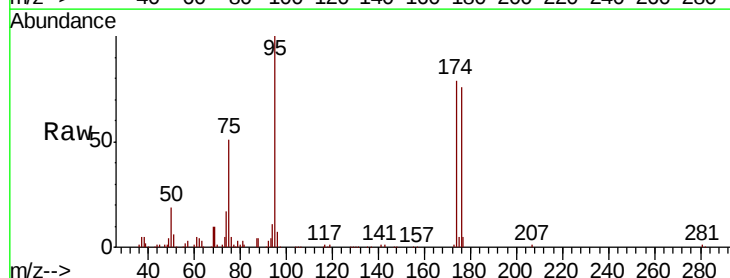
Tgt Ion: 95 Resp: 165699

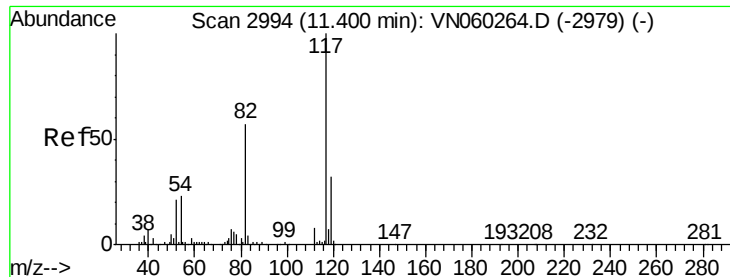
Ion Ratio Lower Upper

95 100

174 77.5 0.0 159.2

176 75.1 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

TP-5-SA

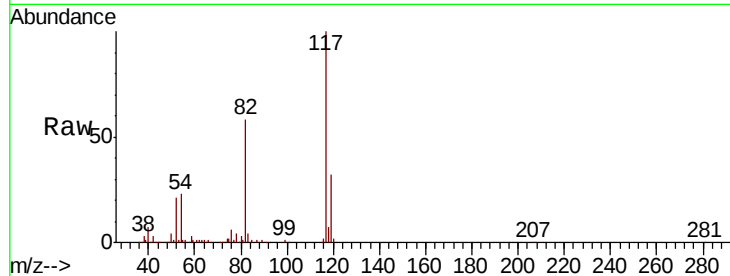
Tot Ion:117 Resp: 334999

Ion Ratio Lower Upper

117 100

82 58.2 45.8 68.6

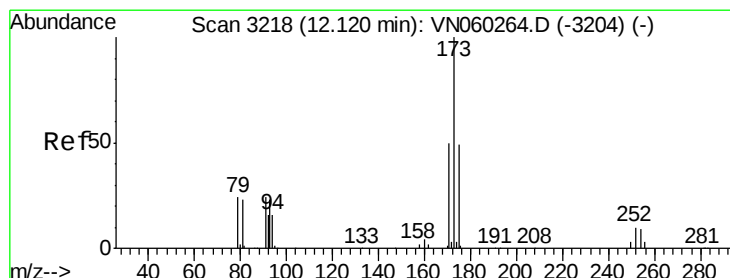
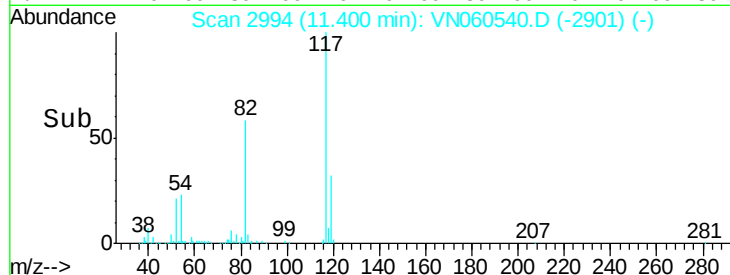
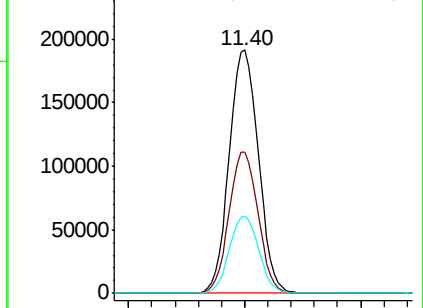
119 32.0 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.316 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

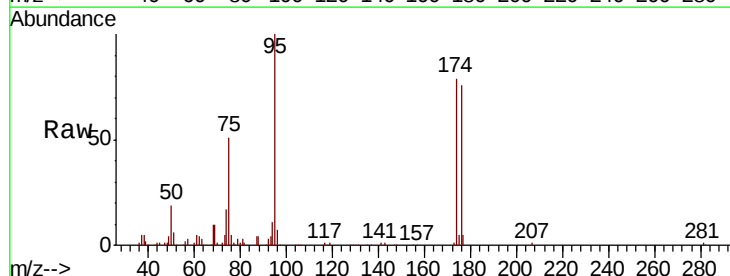
Tgt Ion:173 Resp: 569

Ion Ratio Lower Upper

173 100

175 1395.1 24.1 72.2#

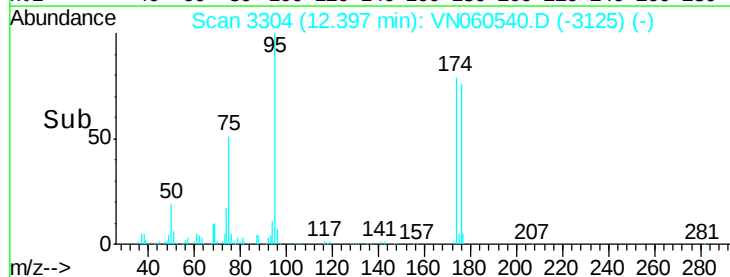
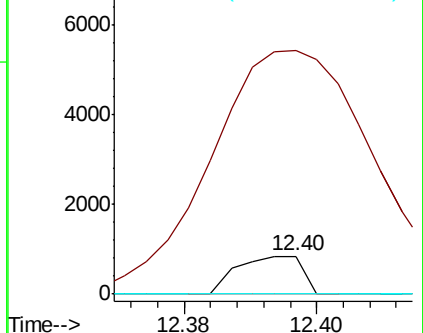
254 0.0 0.0 0.0

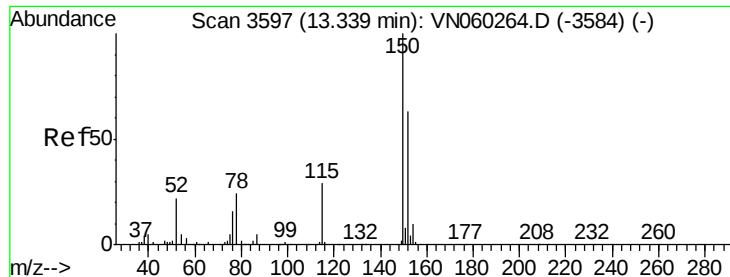


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

TP-5-SA

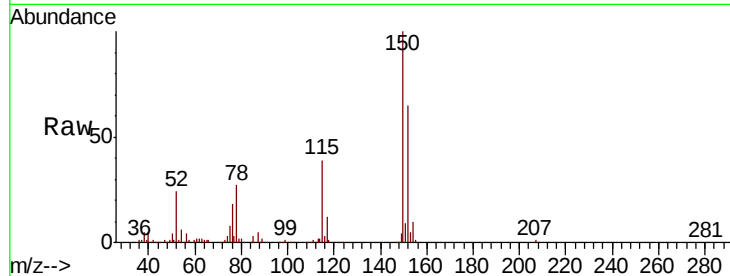
Tot Ion:152 Resp: 151948

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

150 155.3 0.0 349.6

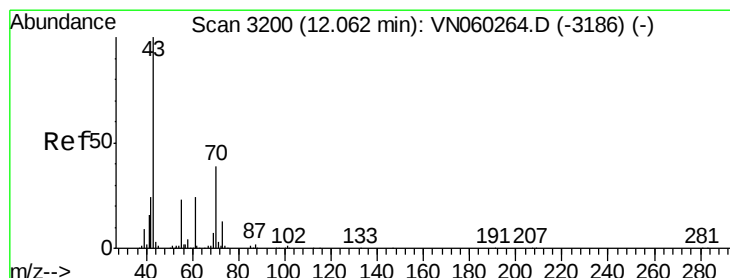
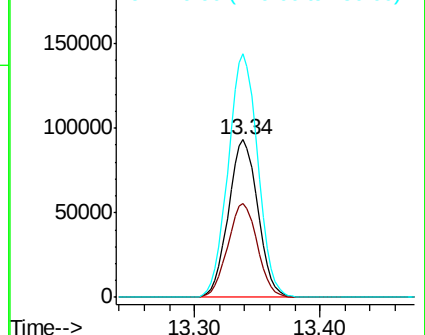
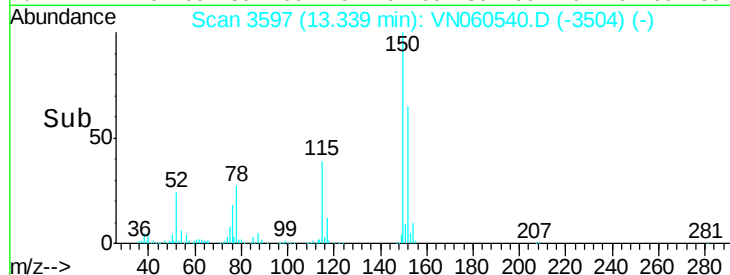


Abundance

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: 0.594 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Tgt Ion: 43 Resp: 2923

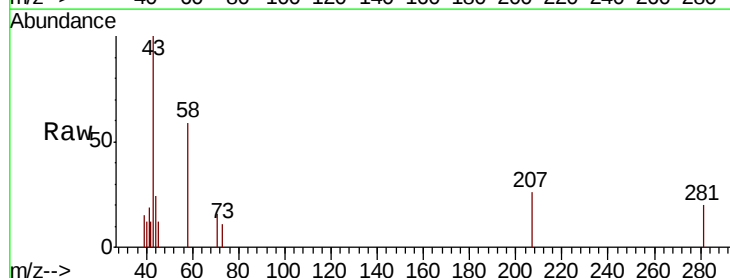
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



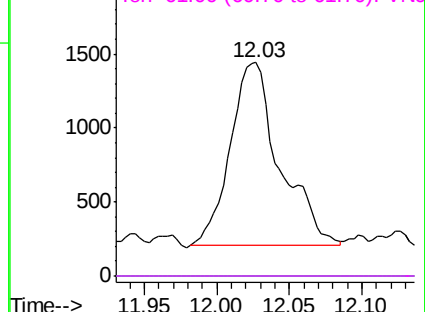
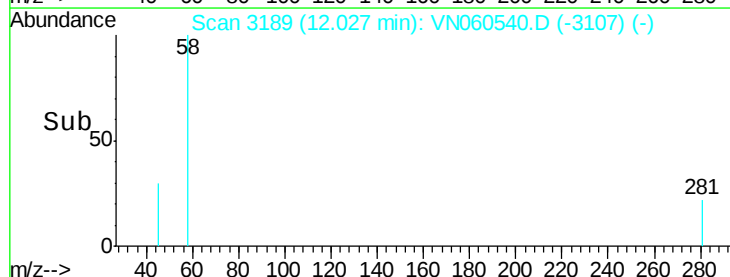
Abundance

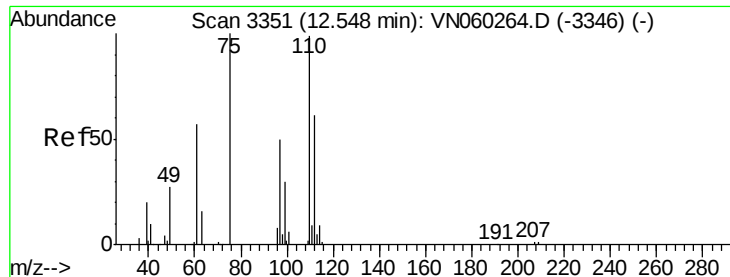
Ion 43.00 (42.70 to 43.70): VN0

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

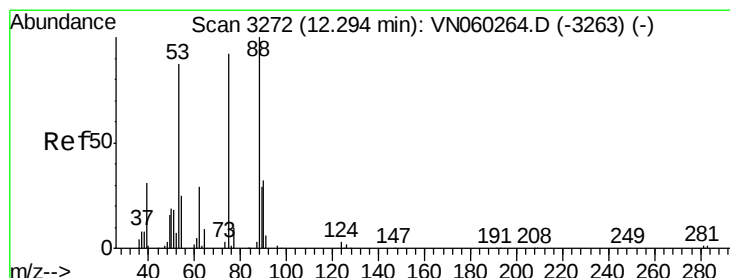
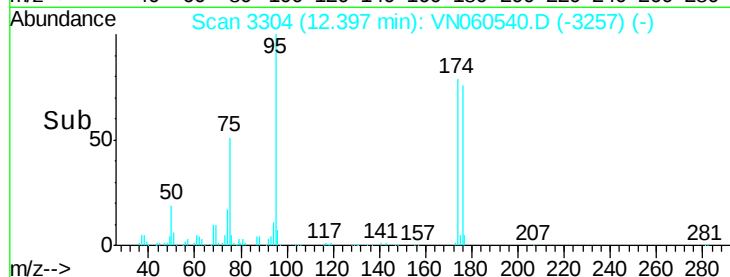
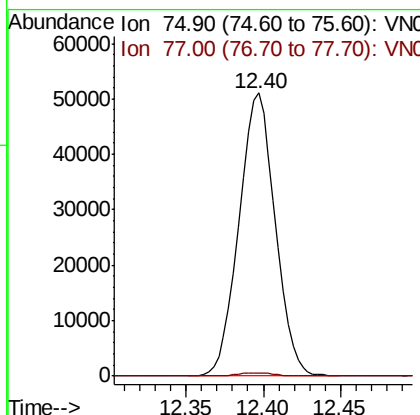
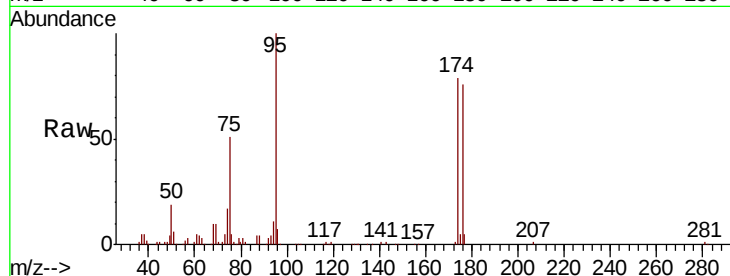




#76
 1,2,3-Trichloropropane
 Concen: 24.927 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

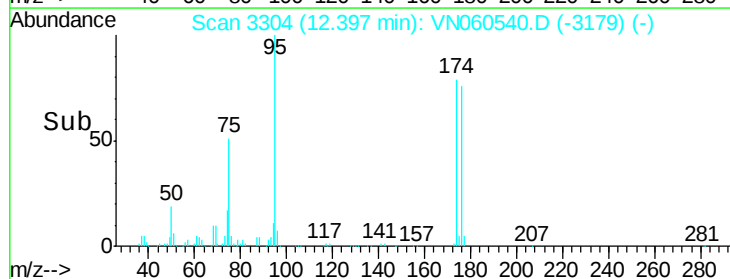
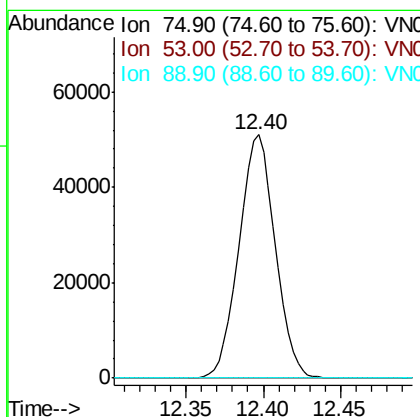
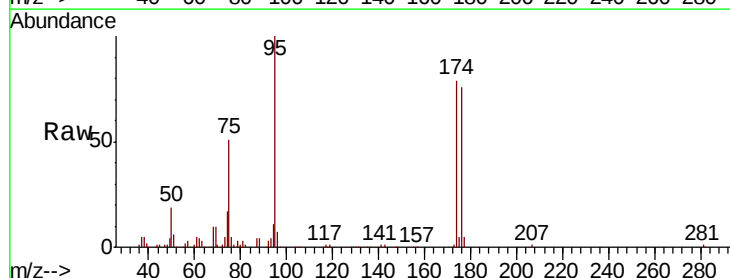
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5-SA

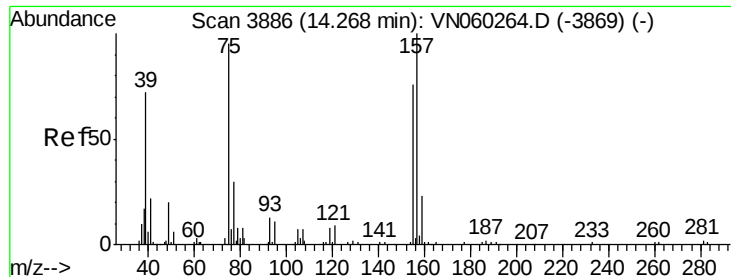
Tot Ion: 75 Resp: 83100
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.810 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060540.D
 Acq: 16 Mar 2020 21:39

Tgt Ion: 75 Resp: 83100
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 57.1 85.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.231 ug/l

RT: 14.51 min Scan# 3962

Delta R.T. 0.24 min

Lab File: VN060540.D

Acq: 16 Mar 2020 21:39

Instrument :

MSVOA_N

ClientSampleId :

TP-5-SA

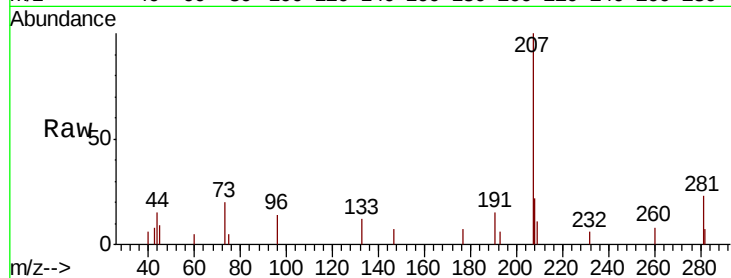
Tot Ion: 75 Resp: 160

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#



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

