

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031020\
 Data File : VN060428.D
 Acq On : 10 Mar 2020 19:33
 Operator : JC/MD
 Sample : L1852-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-S

Quant Time: Mar 11 06:43:38 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	187671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304274	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126222	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	120212	49.93	ug/l	0.00
Spiked Amount						
			Recovery	=	99.86%	
35) Dibromofluoromethane	7.57	113	89717	63.52	ug/l	0.00
Spiked Amount						
			Recovery	=	127.04%	
50) Toluene-d8	10.08	98	376595	52.69	ug/l	0.00
Spiked Amount						
			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	12.40	95	135234	49.91	ug/l	0.00
Spiked Amount						
			Recovery	=	99.82%	

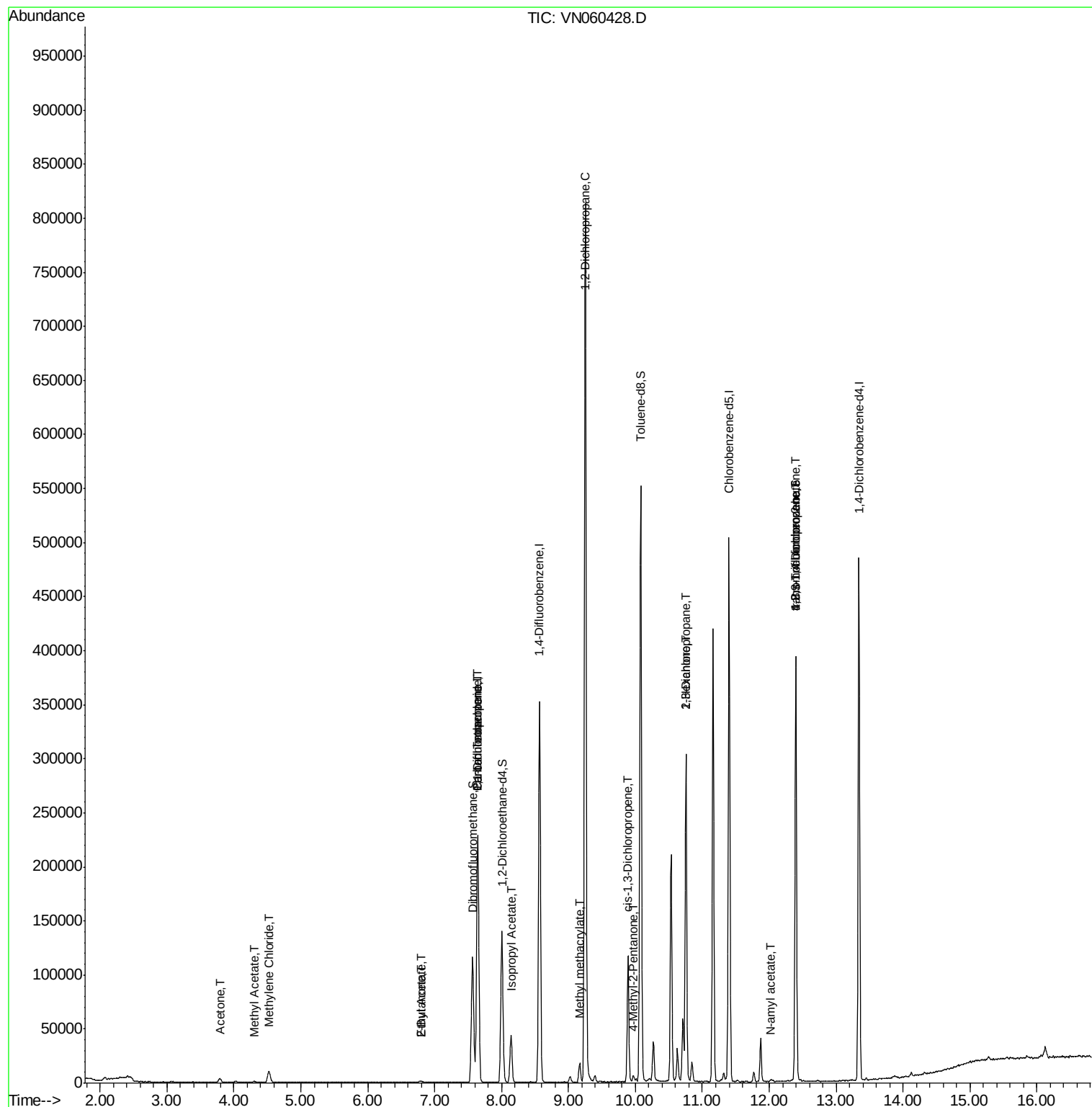
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7195	9.253	ug/l	89
17) Carbon Disulfide	4.04	76	865	Below Cal	#	75
18) Methyl Acetate	4.31	43	1485	0.572	ug/l #	52
20) Methylene Chloride	4.52	84	8007	3.750	ug/l	93
25) 2-Butanone	6.81	43	562	0.447	ug/l #	49
31) Cyclohexane	7.64	56	4030	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14031	4.838	ug/l #	50
37) Ethyl Acetate	6.81	43	562	0.205	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17625	6.243	ug/l #	15
43) Isopropyl Acetate	8.14	43	51270	10.666	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	877	0.397	ug/l #	44
48) Methyl methacrylate	9.16	41	2547	1.162	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3264	1.198	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	20964	5.670	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3185	0.916	ug/l #	42
59) 2-Hexanone	10.75	43	44811	22.393	ug/l #	52
74) N-amyl acetate	12.02	43	2011	0.492	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	70184	25.343	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	70184	69.960	ug/l #	8
95) Naphthalene	15.14	128	132	Below Cal	#	69

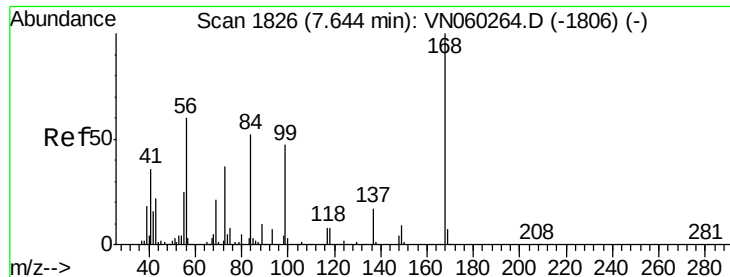
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampled :

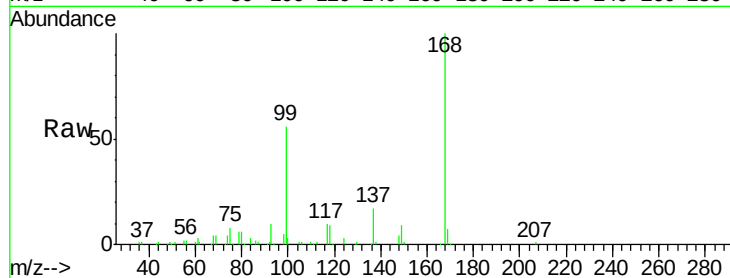
TP-2-S

Tgt Ion:168 Resp: 187671

Ion Ratio Lower Upper

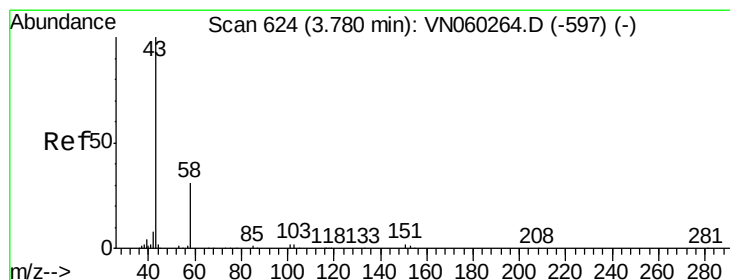
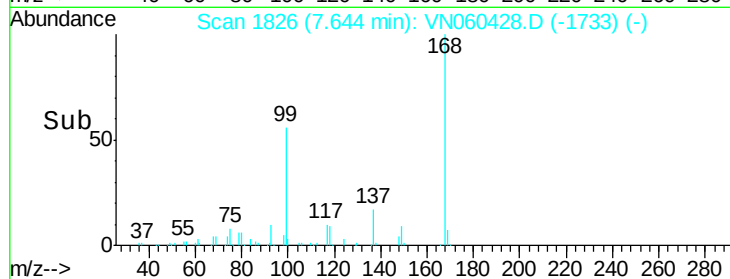
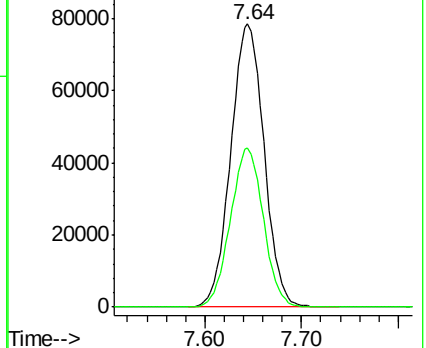
168 100

99 56.1 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: 9.253 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060428.D

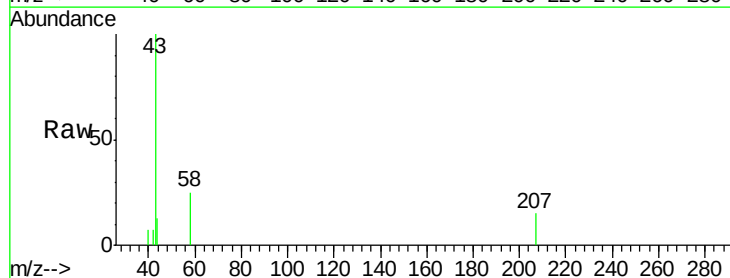
Acq: 10 Mar 2020 19:33

Tgt Ion: 43 Resp: 7195

Ion Ratio Lower Upper

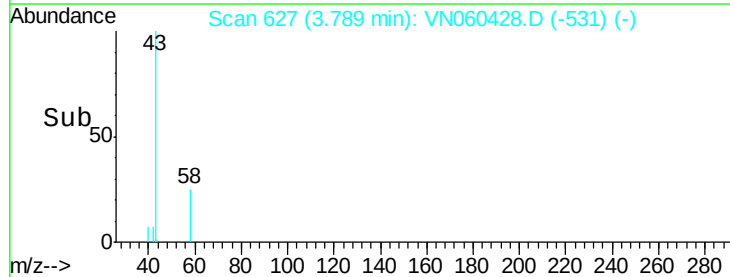
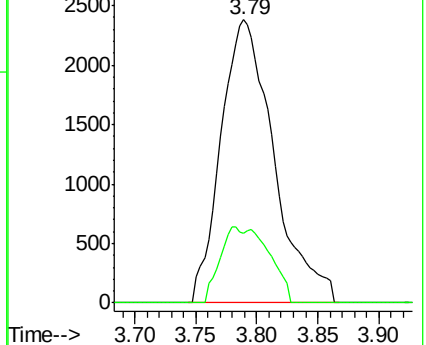
43 100

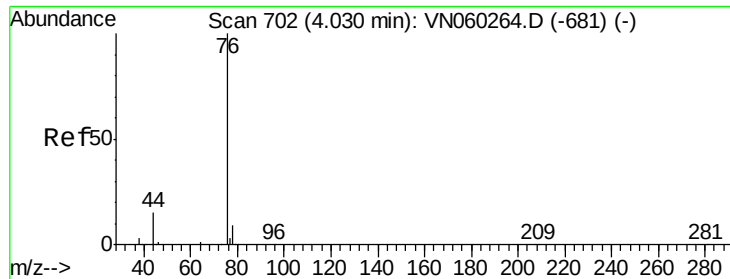
58 24.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampled :

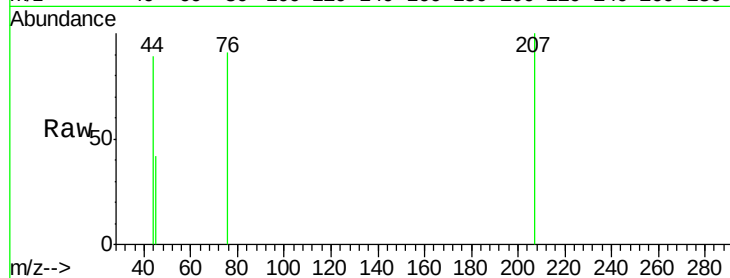
TP-2-S

Tgt Ion: 76 Resp: 865

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

300

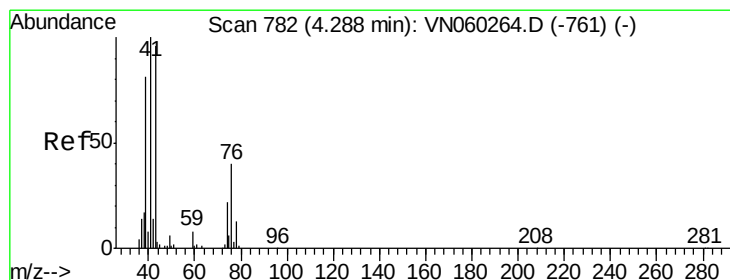
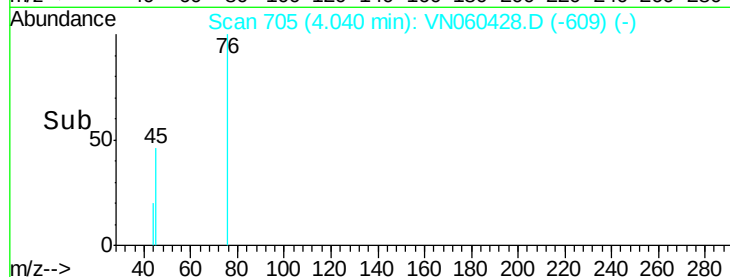
200

100

0

4.00 4.05

Time-->



#18

Methyl Acetate

Concen: 0.572 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.02 min

Lab File: VN060428.D

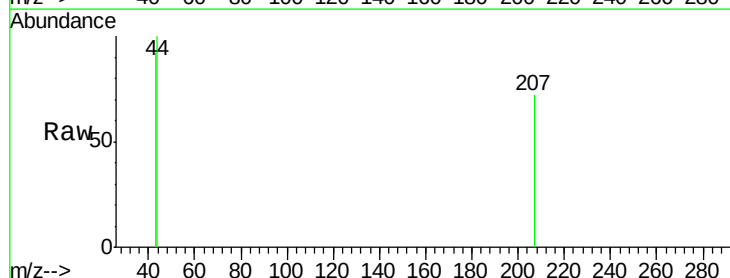
Acq: 10 Mar 2020 19:33

Tgt Ion: 43 Resp: 1485

Ion Ratio Lower Upper

43 100

74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

500

400

300

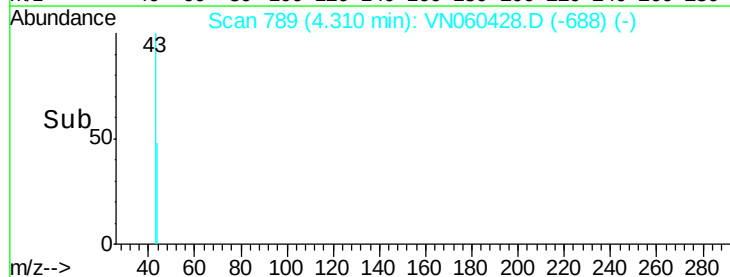
200

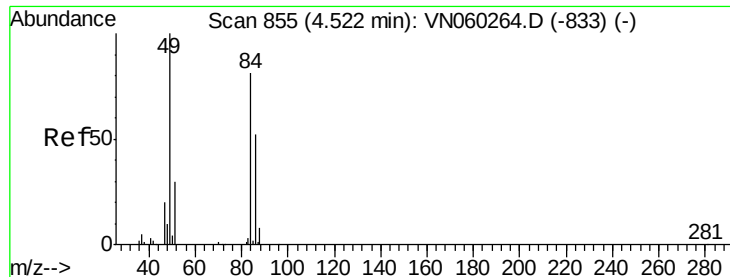
100

0

4.25 4.30 4.35

Time-->

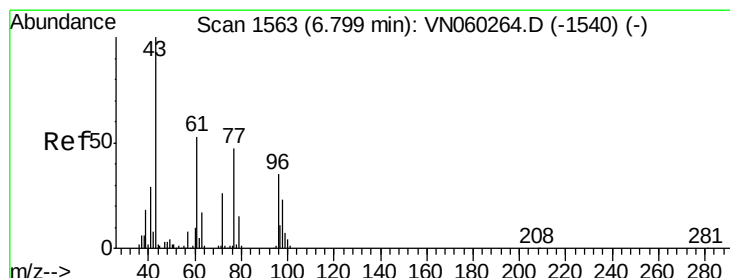
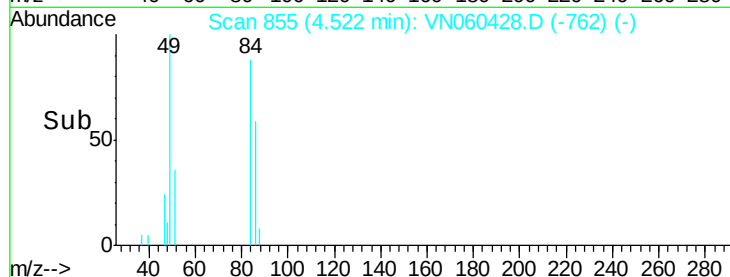
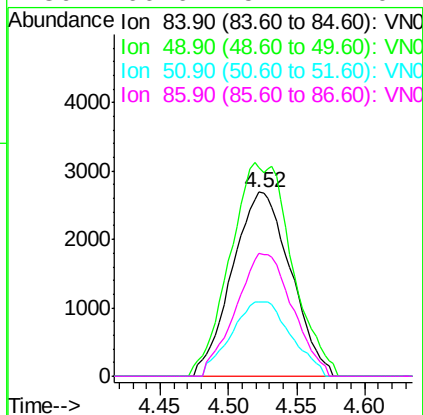
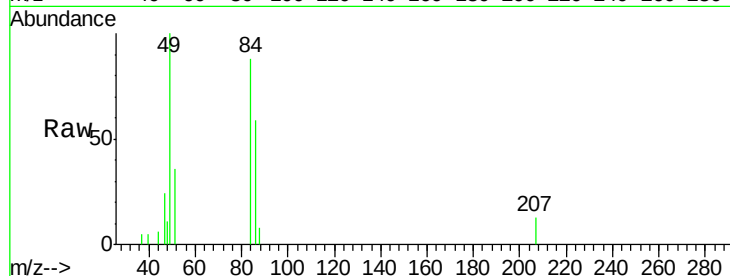




#20
Methylene Chloride
Concen: 3.750 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

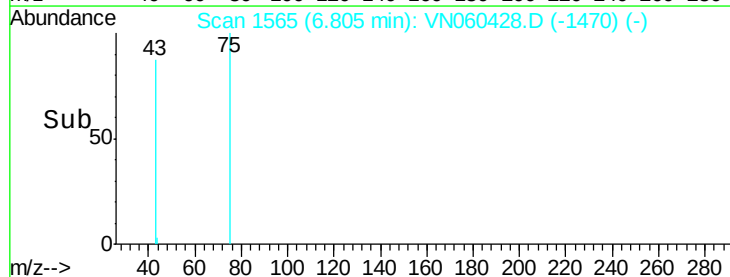
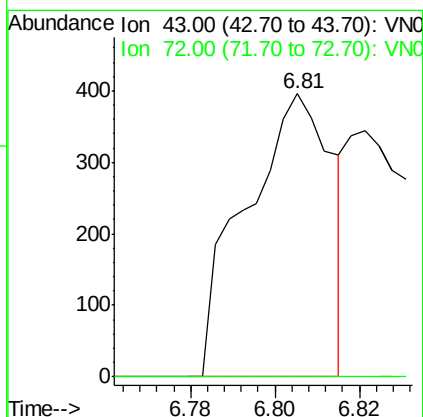
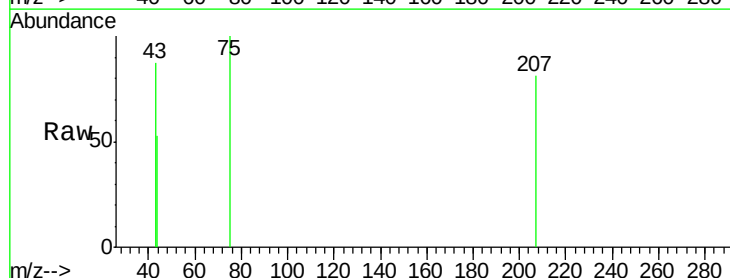
Instrument :
MSVOA_N
ClientSampled :
TP-2-S

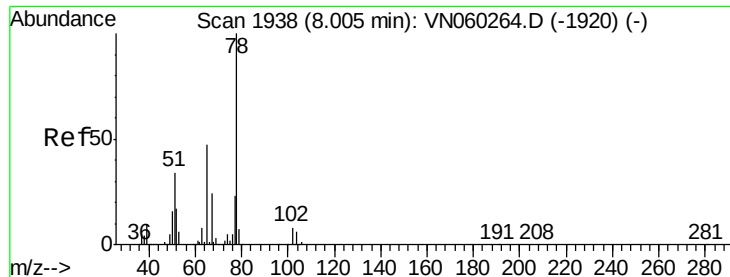
Tgt Ion:	84	Resp:	8007
Ion	Ratio	Lower	Upper
84	100		
49	113.4	99.3	148.9
51	40.7	30.1	45.1
86	66.6	51.1	76.7



#25
2-Butanone
Concen: 0.447 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

Tgt Ion:	43	Resp:	562
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

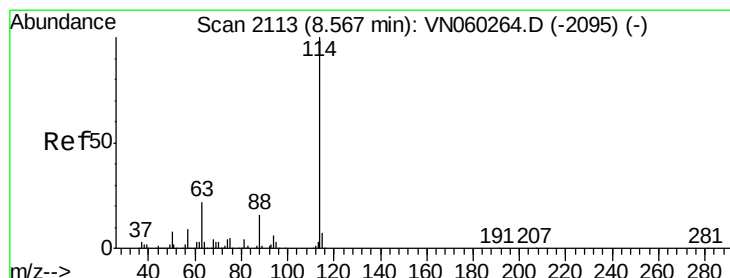
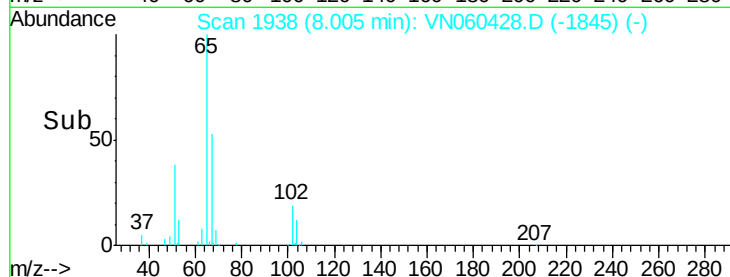
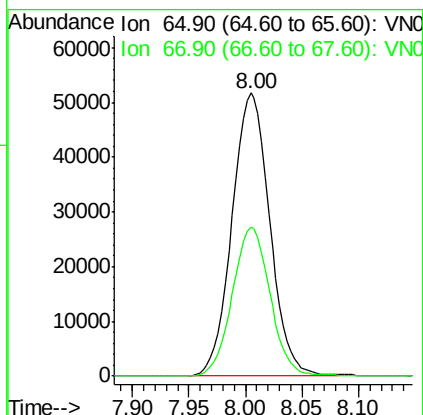
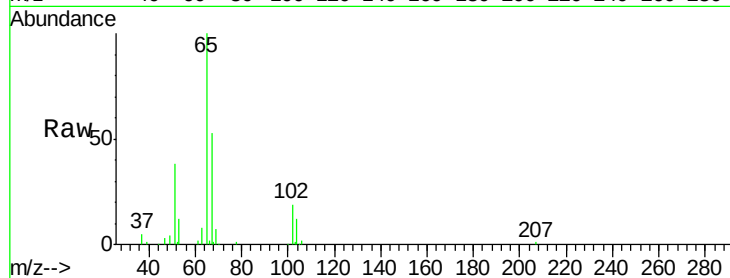




#33
 1,2-Dichloroethane-d4
 Concen: 49.925 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060428.D
 Acq: 10 Mar 2020 19:33

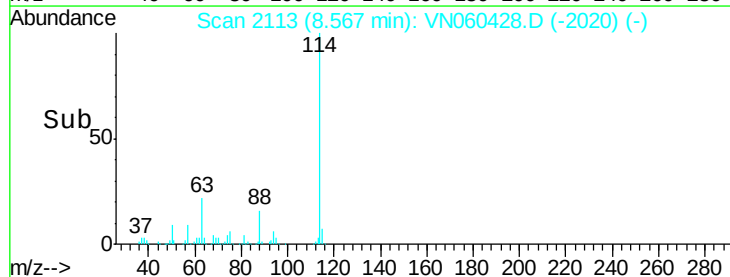
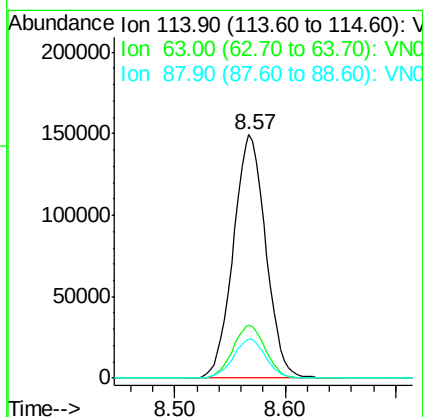
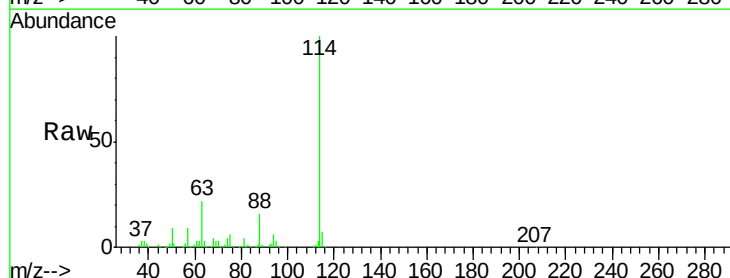
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-S

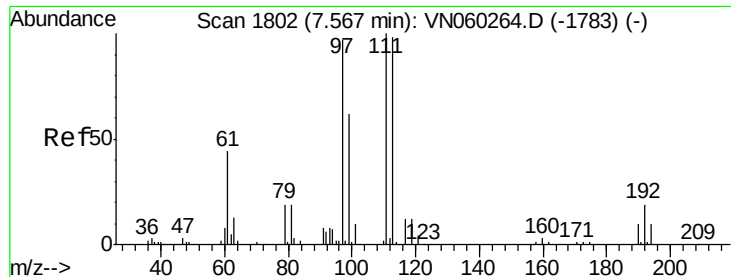
Tgt Ion: 65 Resp: 120212
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060428.D
 Acq: 10 Mar 2020 19:33

Tgt Ion: 114 Resp: 304274
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.2
 88 16.1 0.0 31.6

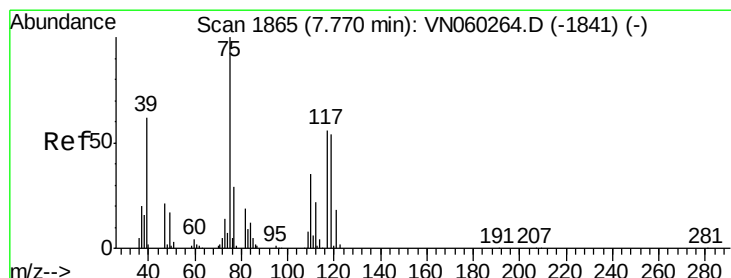
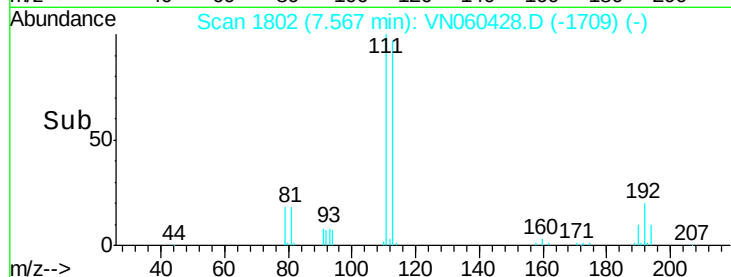
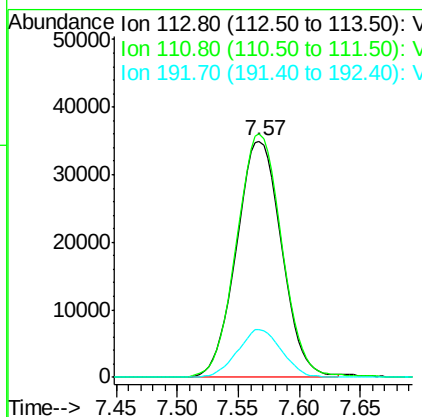
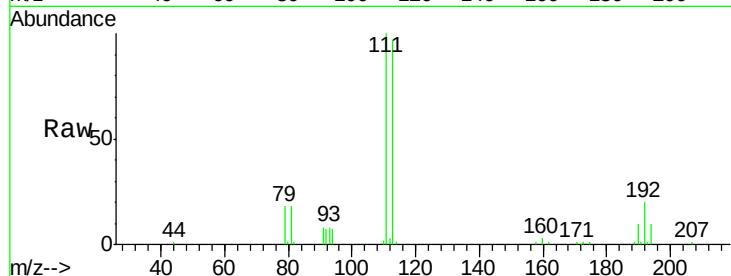




#35
Dibromofluoromethane
Concen: 63.524 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

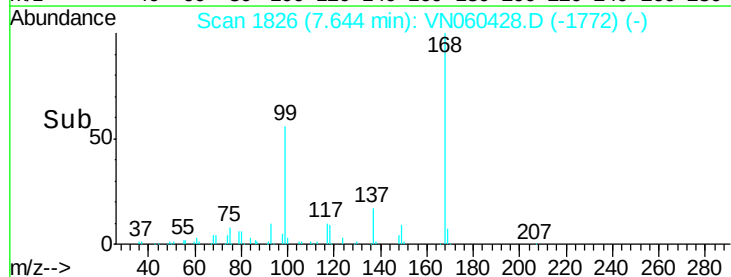
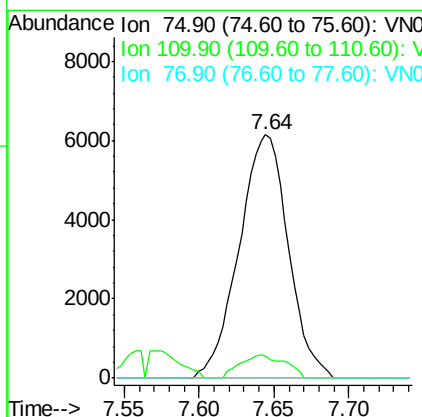
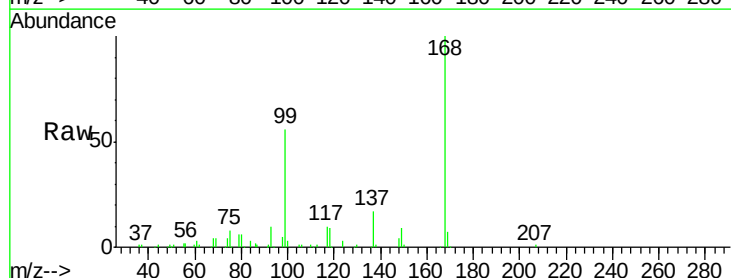
Instrument :
MSVOA_N
ClientSampleId :
TP-2-S

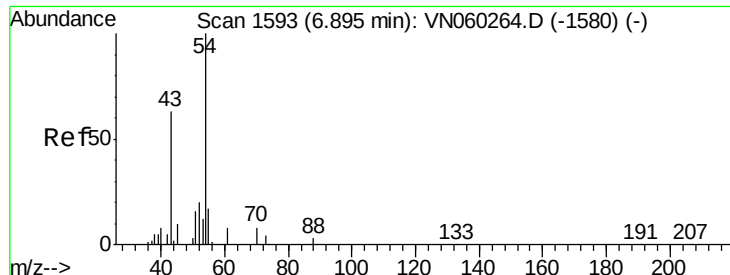
Tgt Ion: 113 Resp: 89717
Ion Ratio Lower Upper
113 100
111 103.4 82.4 123.6
192 19.7 16.2 24.2



#36
1,1-Dichloropropene
Concen: 4.838 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

Tgt Ion: 75 Resp: 14031
Ion Ratio Lower Upper
75 100
110 8.8 17.3 52.0#
77 0.0 24.2 36.2#

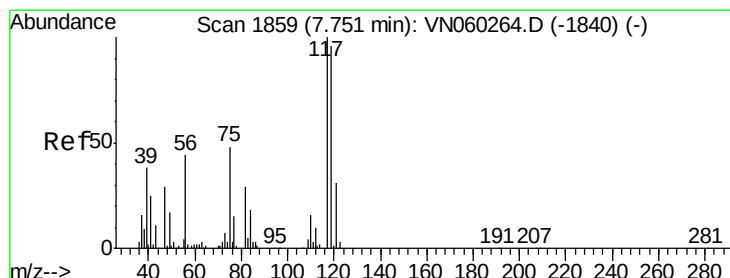
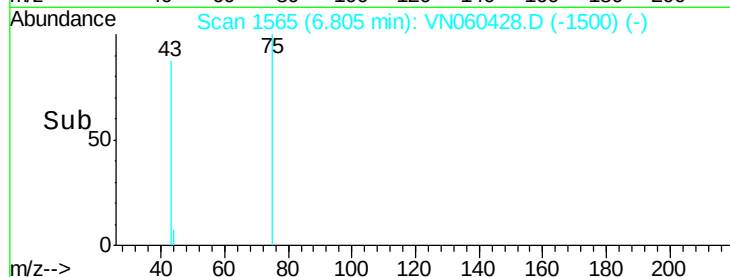
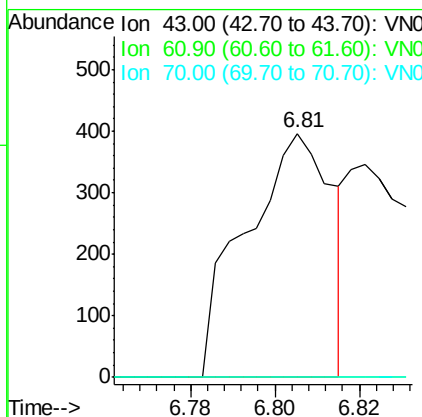
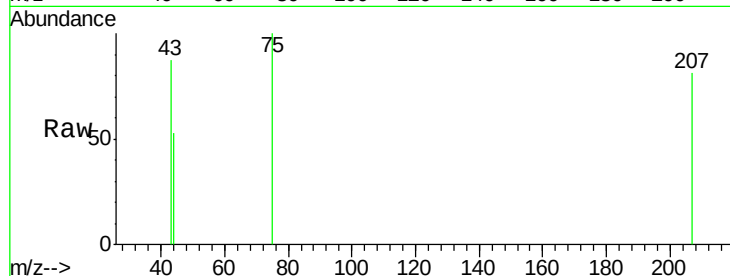




#37
Ethyl Acetate
Concen: 0.205 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

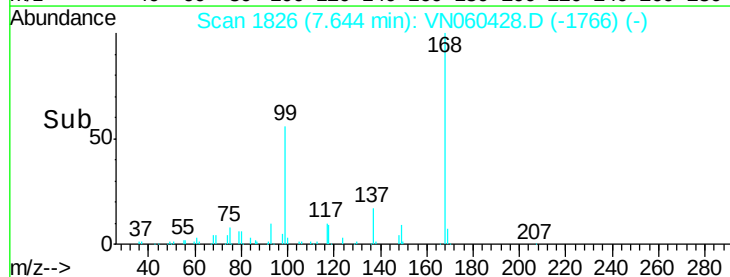
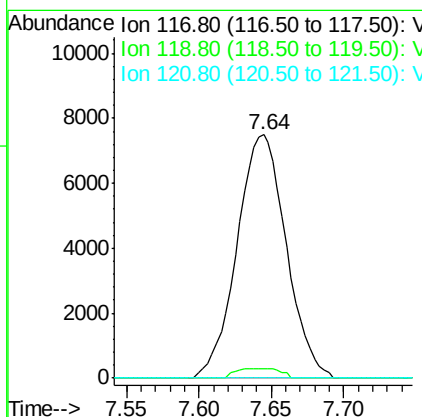
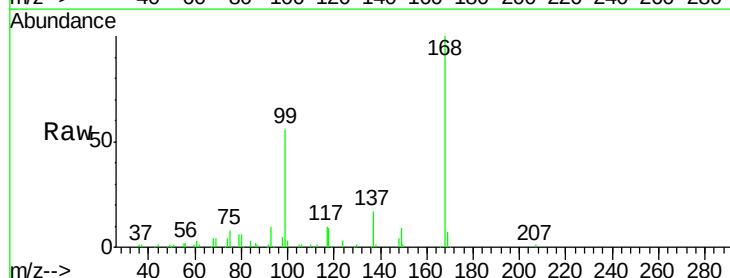
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MSVOA_N
ClientSampled :
TP-2-S

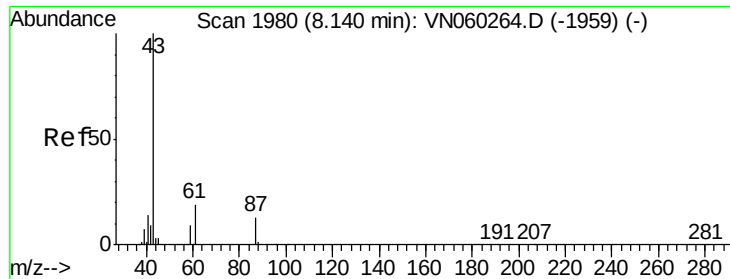
Tgt Ion: 43 Resp: 562
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.243 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

Tgt Ion: 117 Resp: 17625
Ion Ratio Lower Upper
117 100
119 3.9 76.7 115.1#
121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 10.666 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampleId :

TP-2-S

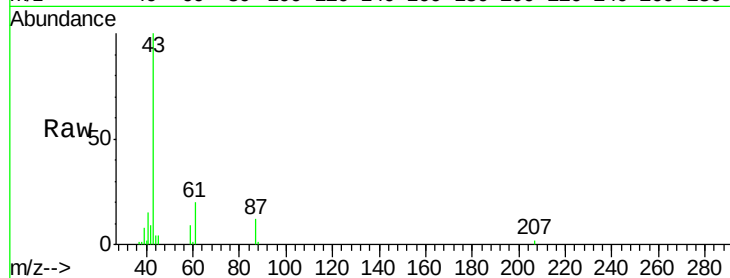
Tgt Ion: 43 Resp: 51270

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

87 12.3 10.6 16.0

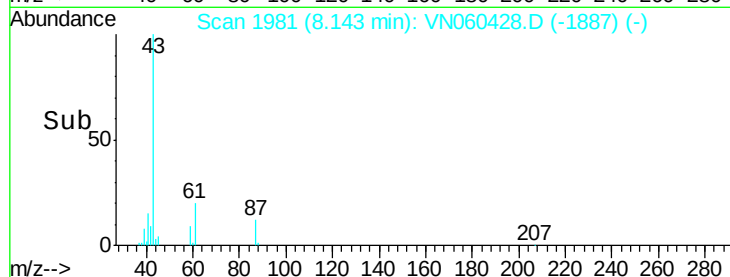


Abundance Ion 43.00 (42.70 to 43.70): VN060428.D (-1980) (-)

Ion 61.00 (60.70 to 61.70): VN060428.D (-1980) (-)

Ion 87.00 (86.70 to 87.70): VN060428.D (-1980) (-)

Time-->

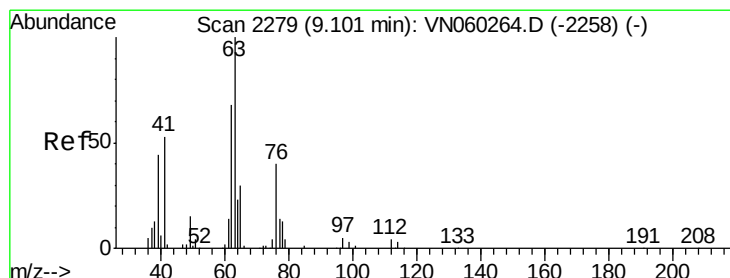


Abundance Ion 43.00 (42.70 to 43.70): VN060428.D (-1980) (-)

Ion 61.00 (60.70 to 61.70): VN060428.D (-1980) (-)

Ion 87.00 (86.70 to 87.70): VN060428.D (-1980) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.397 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060428.D

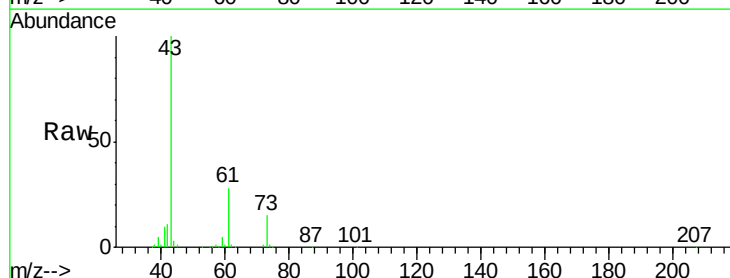
Acq: 10 Mar 2020 19:33

Tgt Ion: 63 Resp: 877

Ion Ratio Lower Upper

63 100

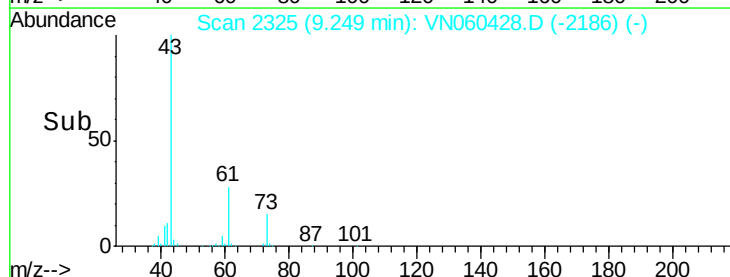
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060428.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060428.D (-2325) (-)

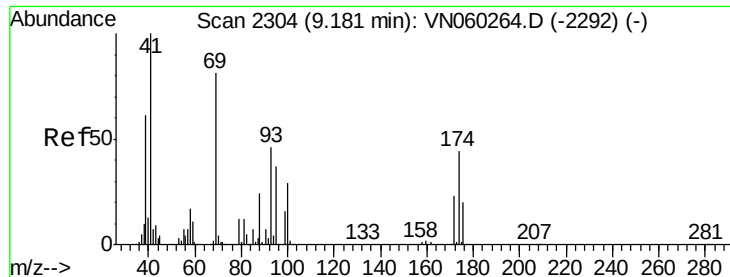
Time-->



Abundance Ion 62.90 (62.60 to 63.60): VN060428.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060428.D (-2325) (-)

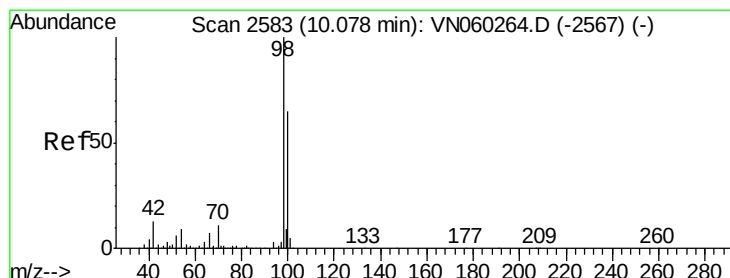
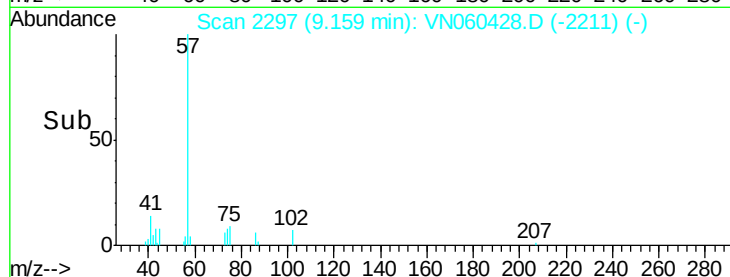
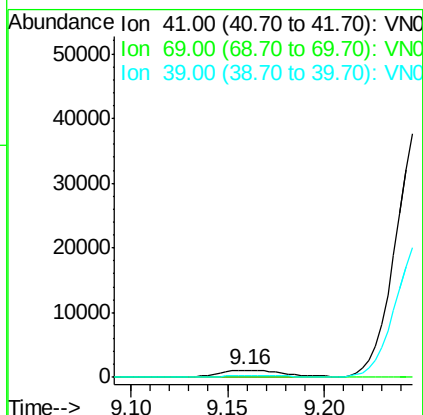
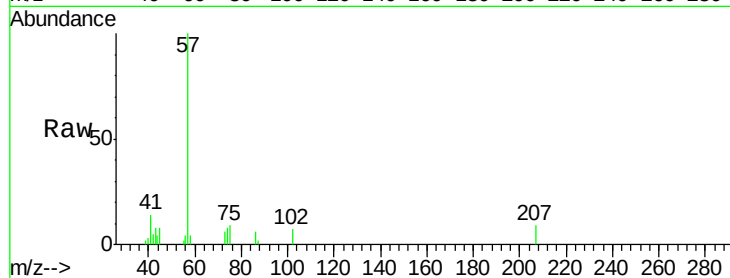
Time-->



#48
Methyl methacrylate
Concen: 1.162 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

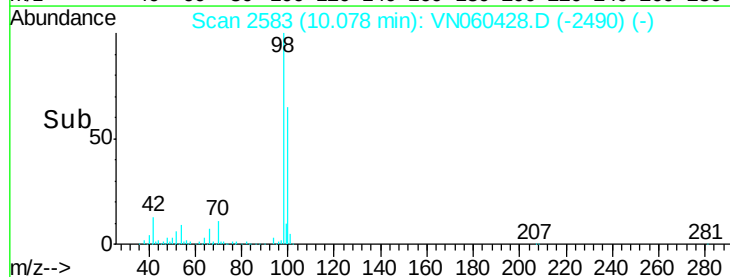
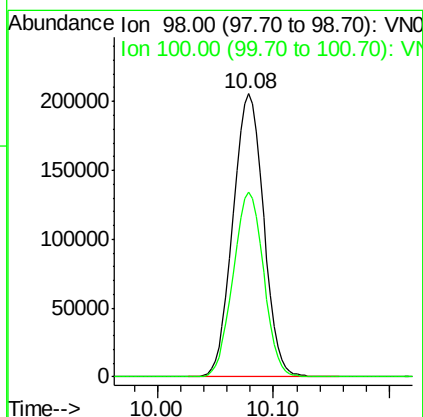
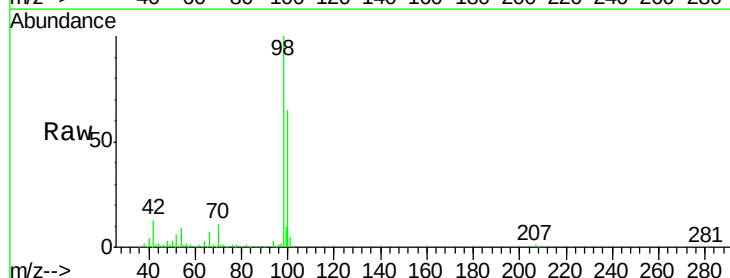
Instrument :
MSVOA_N
ClientSampled :
TP-2-S

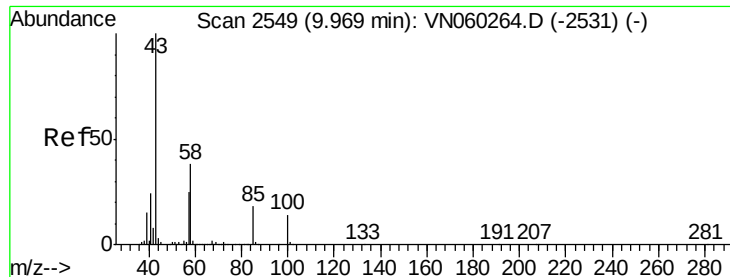
Tgt Ion: 41 Resp: 2547
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.685 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060428.D
Acq: 10 Mar 2020 19:33

Tgt Ion: 98 Resp: 376595
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.198 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampled :

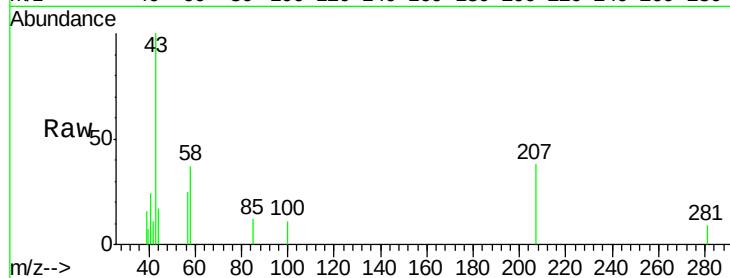
TP-2-S

Tgt Ion: 43 Resp: 3264

Ion Ratio Lower Upper

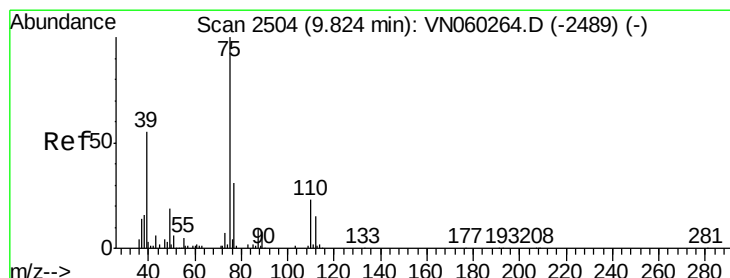
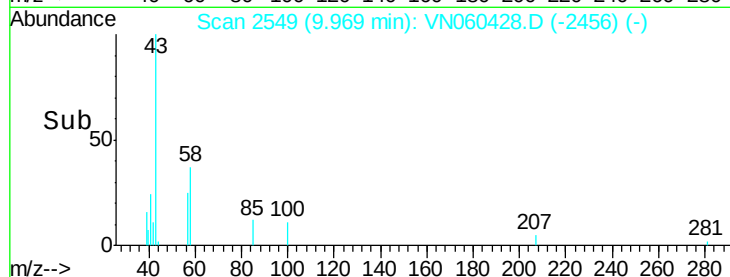
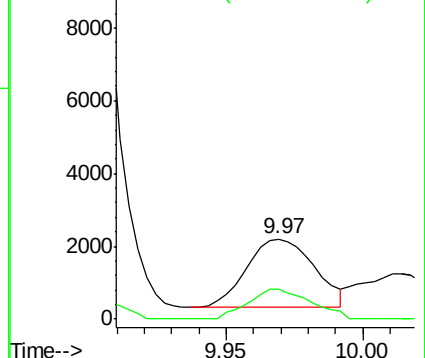
43 100

58 40.8 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.670 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

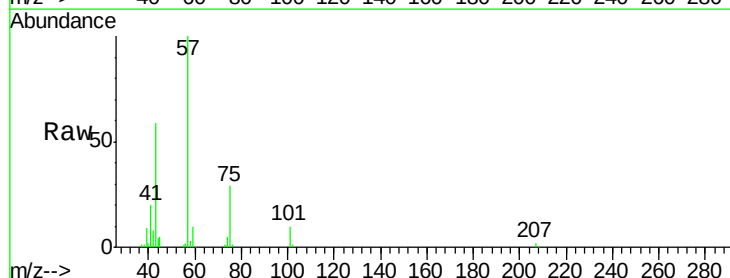
Tgt Ion: 75 Resp: 20964

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

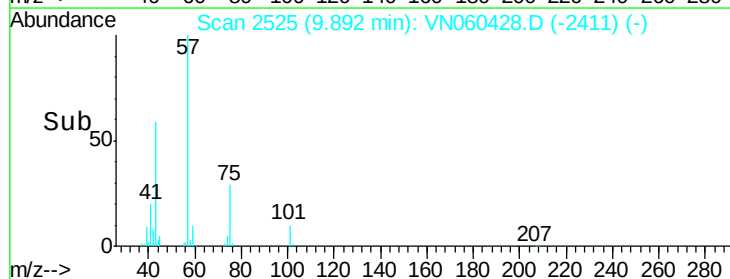
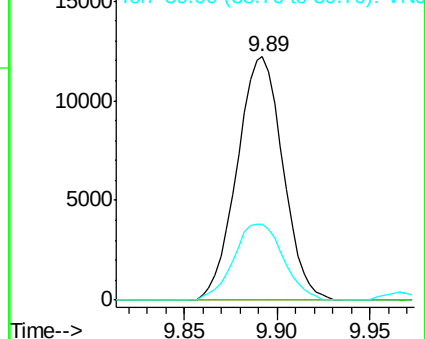
39 31.1 43.8 65.8#

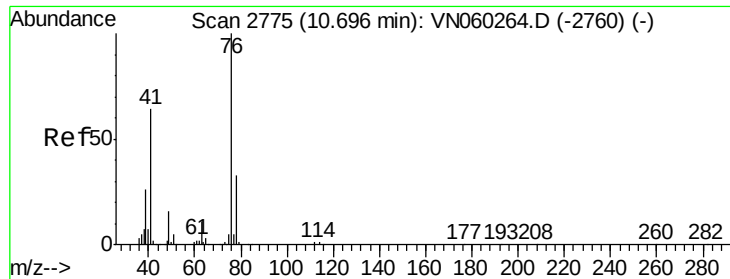


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

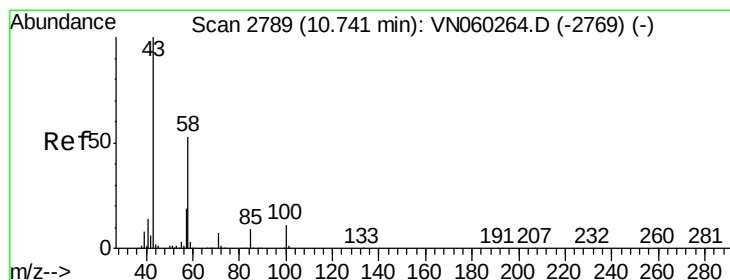
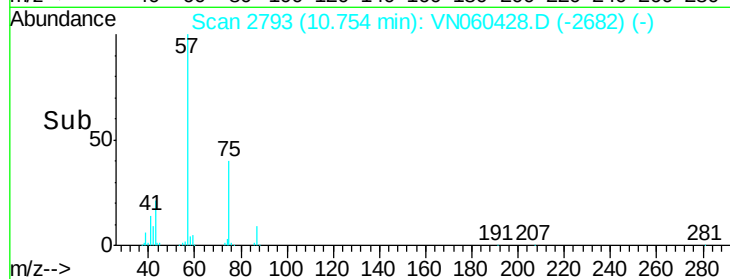
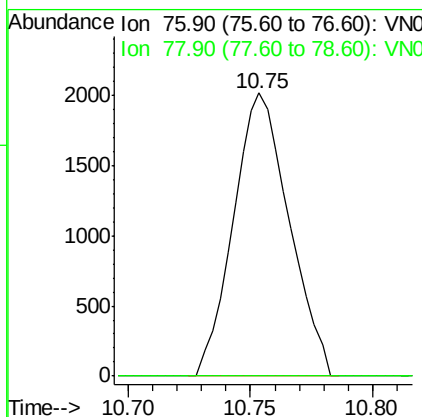
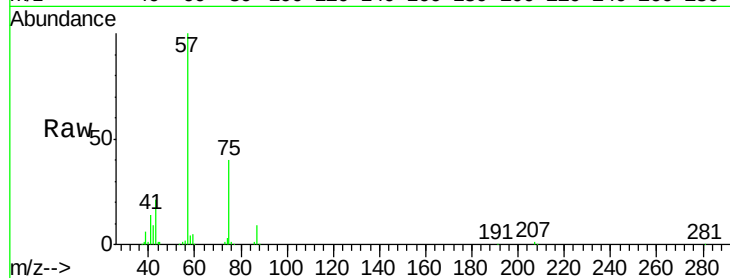




#57
 1,3-Dichloropropane
 Concen: 0.916 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060428.D
 Acq: 10 Mar 2020 19:33

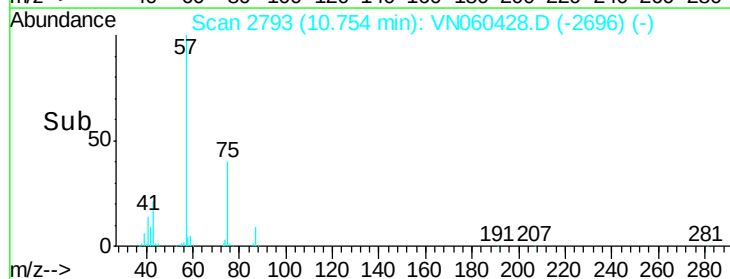
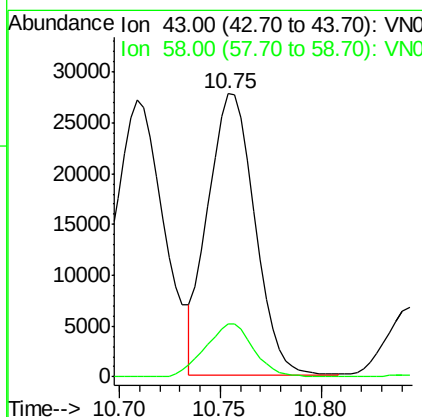
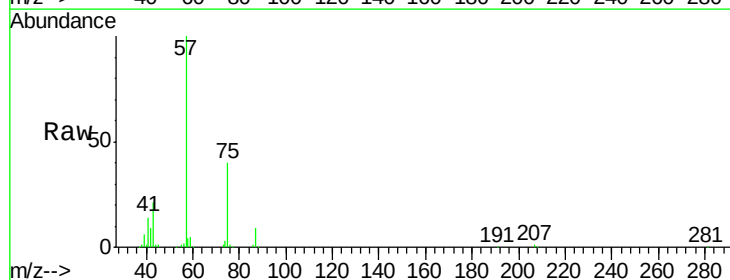
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-S

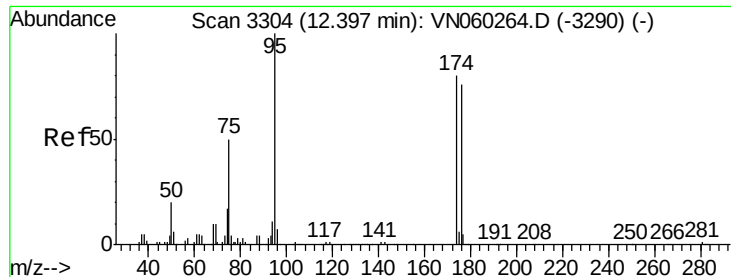
Tgt Ion: 76 Resp: 3185
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 22.393 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060428.D
 Acq: 10 Mar 2020 19:33

Tgt Ion: 43 Resp: 44811
 Ion Ratio Lower Upper
 43 100
 58 19.1 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 49.908 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampleId :

TP-2-S

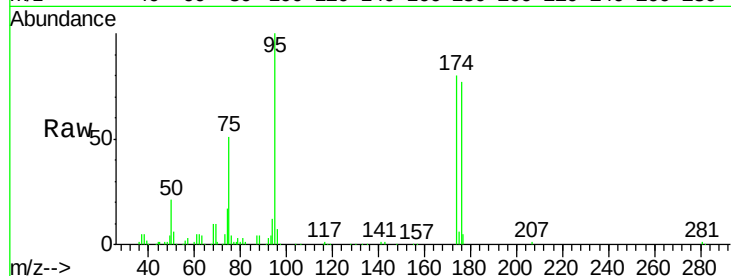
Tgt Ion: 95 Resp: 135234

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.2

176 77.1 0.0 153.8

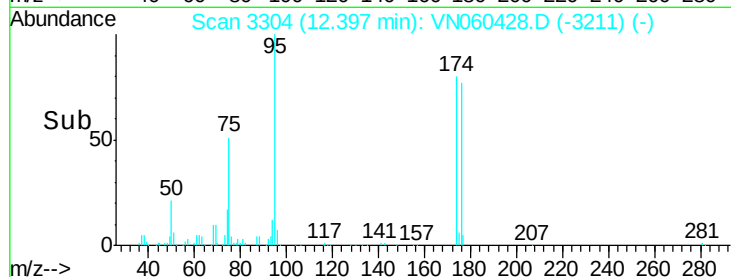


Abundance Ion 94.90 (94.60 to 95.60): VN060428.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060428.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060428.D (-3290) (-)

Time-->



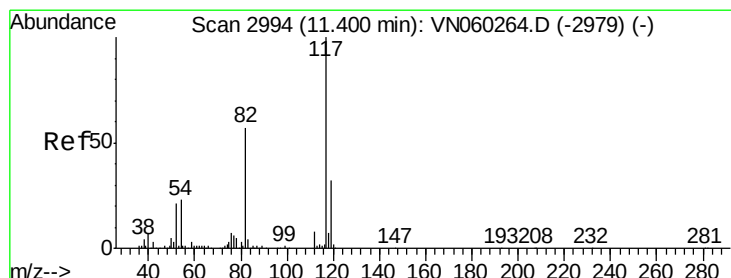
Abundance

Ion 94.90 (94.60 to 95.60): VN060428.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060428.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060428.D (-3211) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

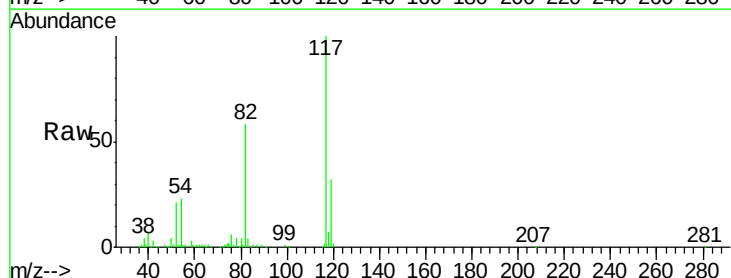
Tgt Ion: 117 Resp: 282352

Ion Ratio Lower Upper

117 100

82 58.2 45.8 68.6

119 32.4 25.8 38.8

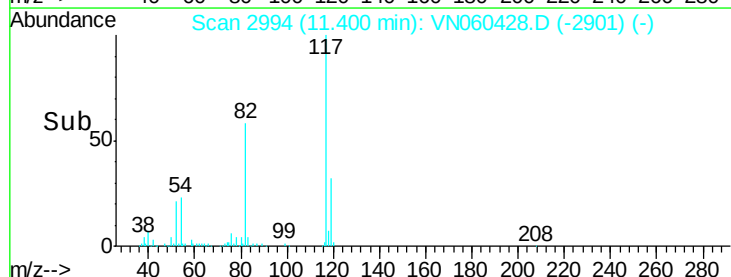


Abundance Ion 116.90 (116.60 to 117.60): VN060428.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060428.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060428.D (-2979) (-)

Time-->



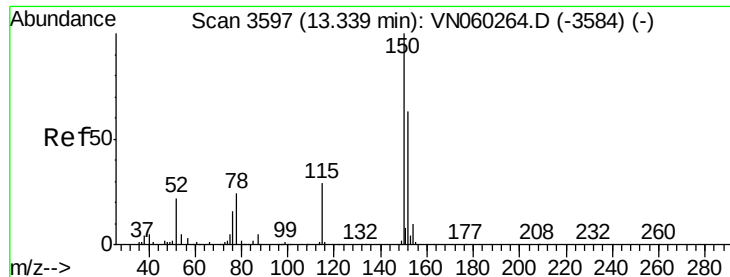
Abundance

Ion 116.90 (116.60 to 117.60): VN060428.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060428.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060428.D (-2901) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampleId :

TP-2-S

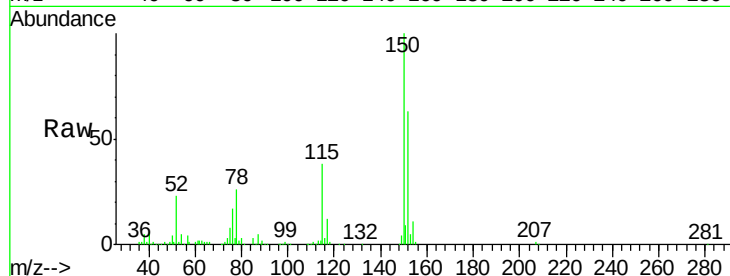
Tgt Ion:152 Resp: 126222

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

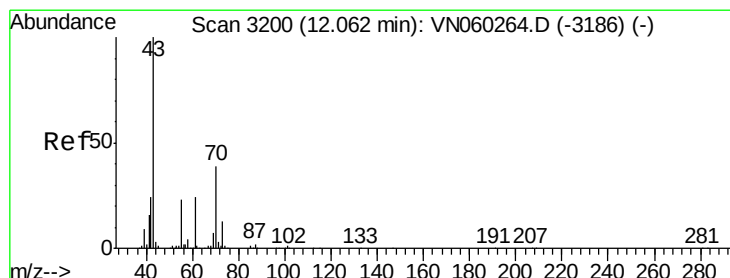
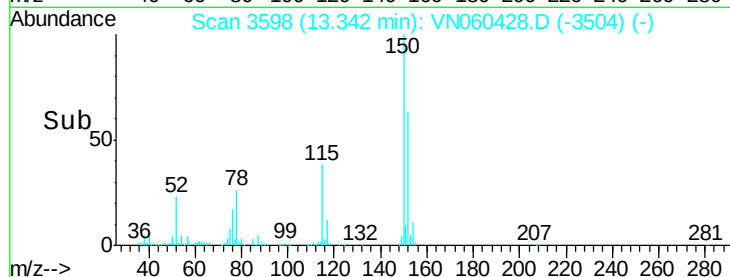
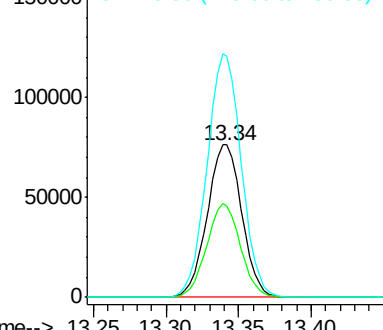
150 157.9 0.0 349.6



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: 0.492 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Tgt Ion: 43 Resp: 2011

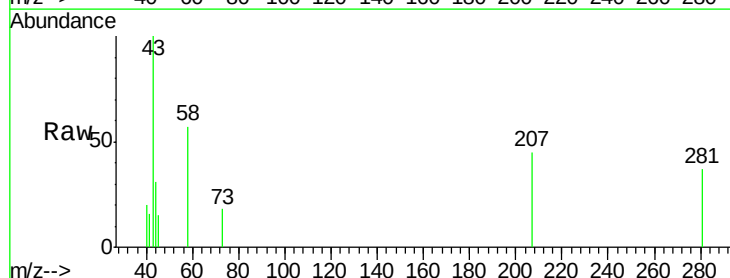
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

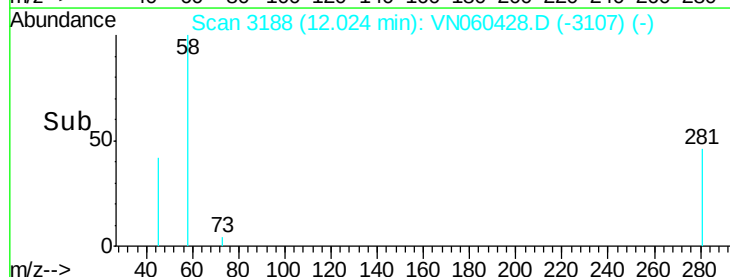
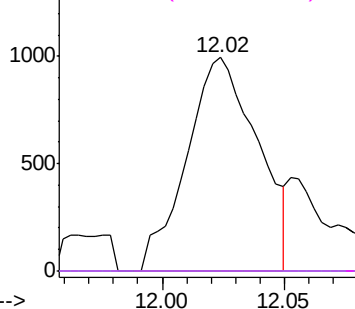


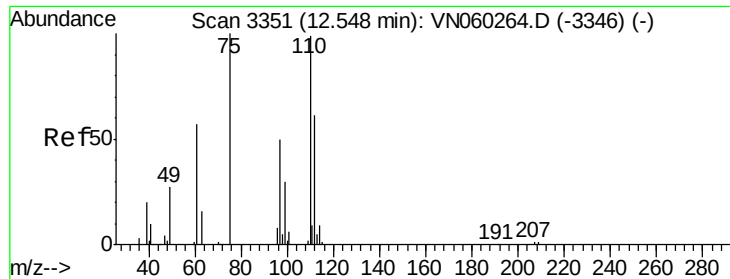
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.343 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

Instrument :

MSVOA_N

ClientSampleId :

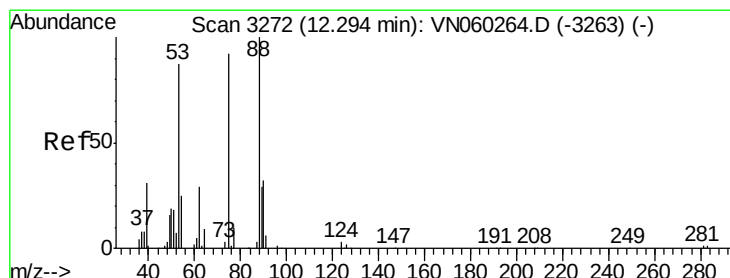
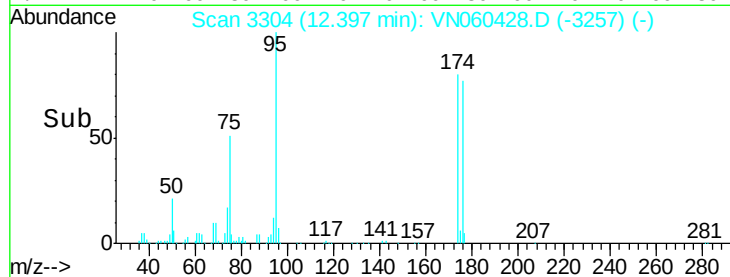
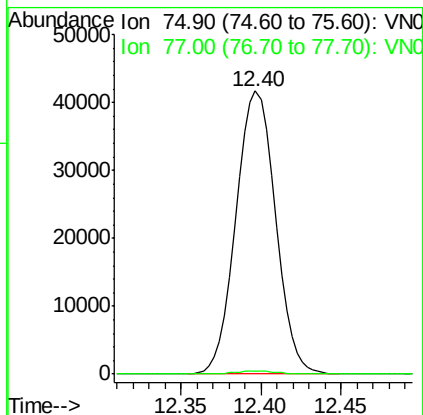
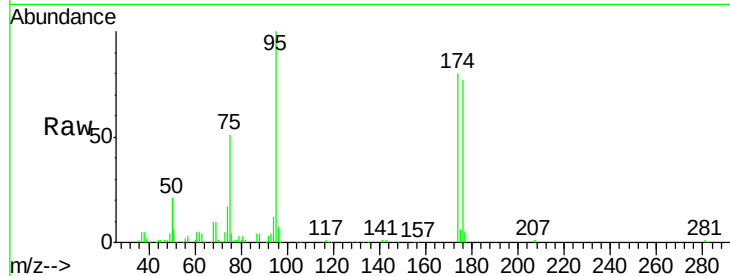
TP-2-S

Tgt Ion: 75 Resp: 70184

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.960 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060428.D

Acq: 10 Mar 2020 19:33

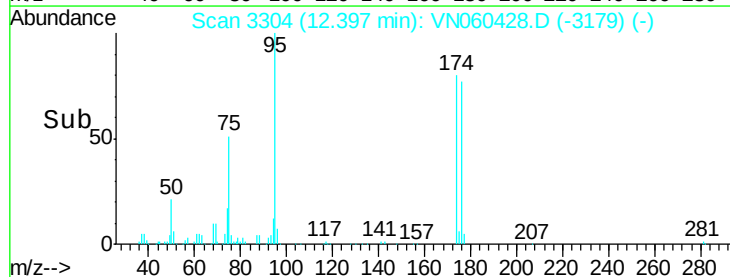
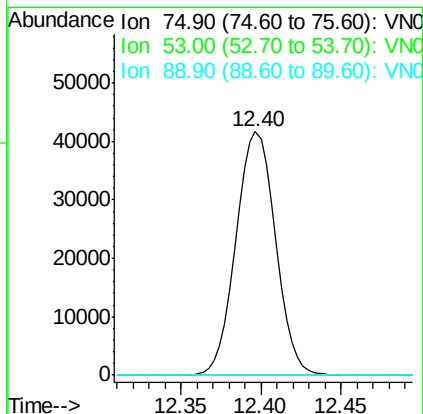
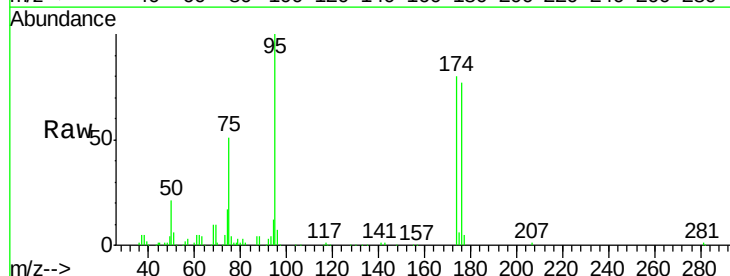
Tgt Ion: 75 Resp: 70184

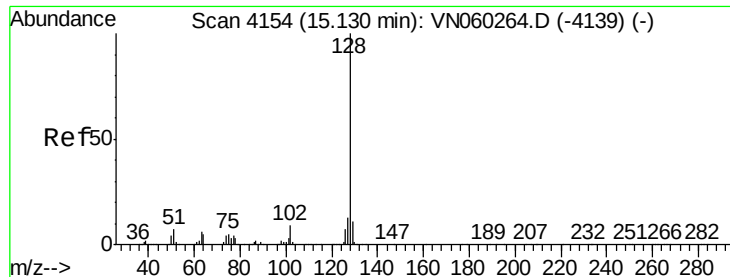
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN060428.D

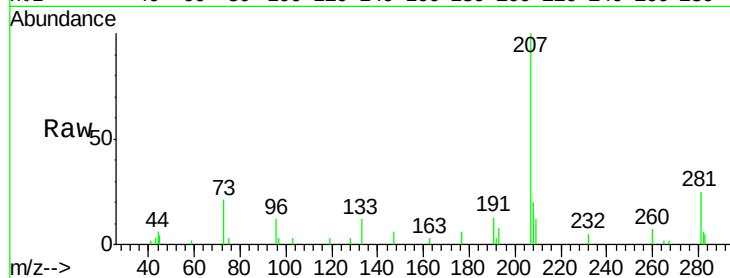
Acq: 10 Mar 2020 19:33

Instrument :

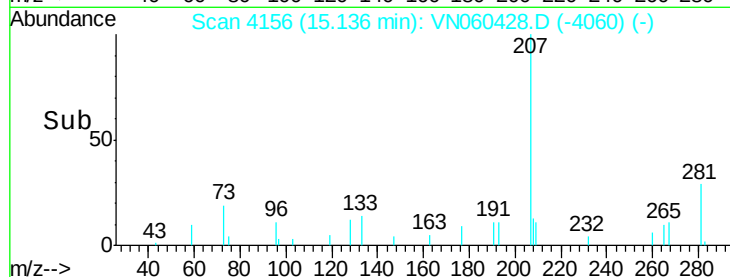
MSVOA_N

ClientSampleId :

TP-2-S



Tgt Ion:	128	Resp:	132
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

