

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060420\
 Data File : VN061645.D
 Acq On : 4 Jun 2020 11:40
 Operator : JC/MD
 Sample : VN0604WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 05 07:22:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	270965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454054	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	167370	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	152319	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
35) Dibromofluoromethane	7.54	113	129834	56.37	ug/l	0.00
Spiked Amount			Recovery	=	112.74%	
50) Toluene-d8	10.06	98	534217	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.37	95	182009	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	

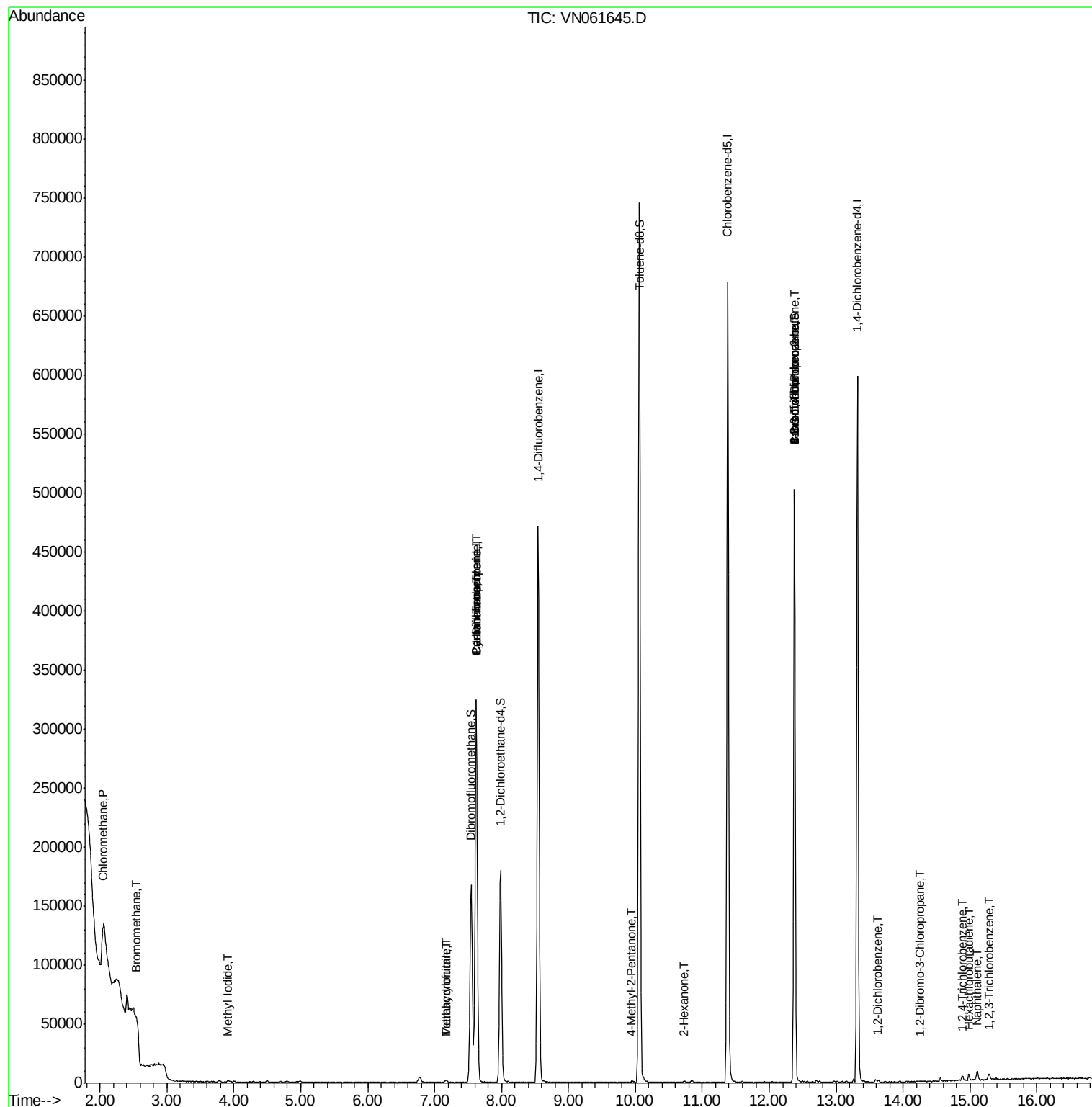
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2674	0.809	ug/l	96
5) Bromomethane	2.55	94	2184	0.840	ug/l #	65
10) Methyl Iodide	3.91	142	1106	0.307	ug/l #	58
16) Acetone	3.76	43	512	Below Cal	#	41
20) Methylene Chloride	4.50	84	638	Below Cal	#	42
29) Tetrahydrofuran	7.17	42	1274	1.263	ug/l #	31
31) Cyclohexane	7.63	56	5095	1.120	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	19464	4.842	ug/l #	48
38) Carbon Tetrachloride	7.62	117	25904	6.681	ug/l #	16
41) Methacrylonitrile	7.16	41	554	0.373	ug/l #	24
51) 4-Methyl-2-Pentanone	9.95	43	1088	0.331	ug/l	88
59) 2-Hexanone	10.73	43	1062	0.451	ug/l	73
71) Bromoform	12.37	173	1591	0.625	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	88341	29.027	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	88341	74.229	ug/l #	15
91) 1,2-Dichlorobenzene	13.63	146	1147	0.217	ug/l #	80
92) 1,2-Dibromo-3-Chloropropan	14.26	75	208	0.298	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.88	180	1704	0.552	ug/l	98
94) Hexachlorobutadiene	14.99	225	1052	0.799	ug/l	98
95) Naphthalene	15.11	128	8156	0.868	ug/l	99
96) 1,2,3-Trichlorobenzene	15.28	180	2313	0.762	ug/l	94

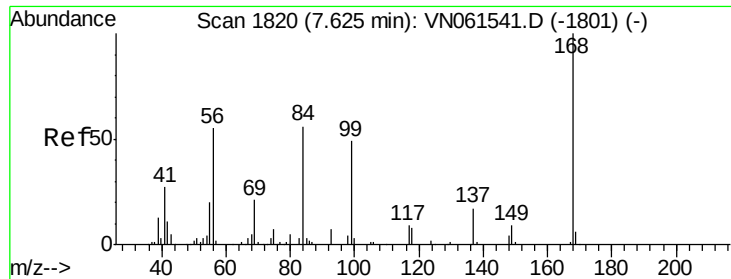
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

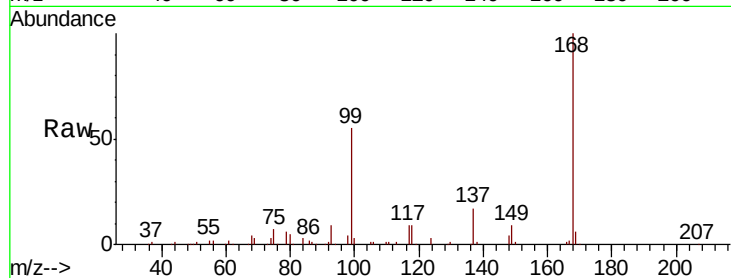
ClientSampleId :

Tot Ion:168 Resp: 270965

Ion Ratio Lower Upper

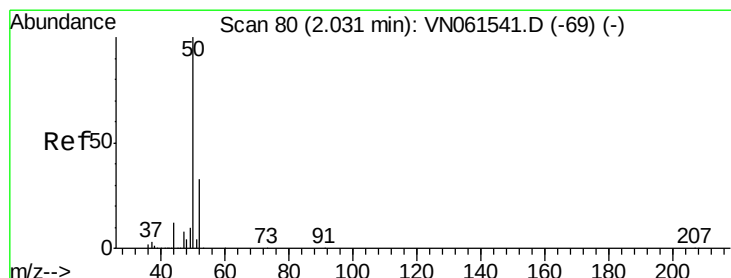
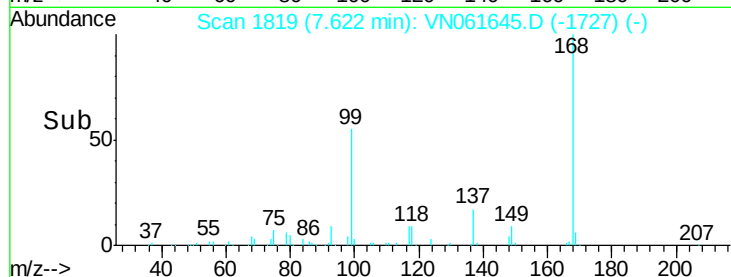
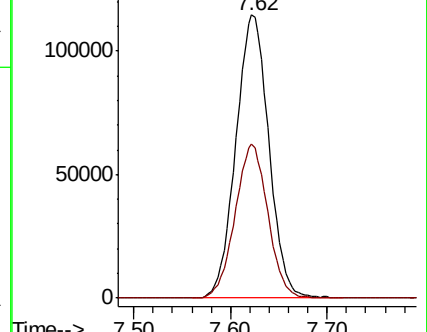
168 100

99 54.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.809 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061645.D

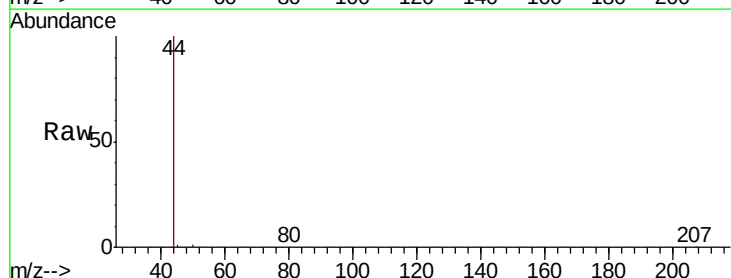
Acq: 4 Jun 2020 11:40

Tgt Ion: 50 Resp: 2674

Ion Ratio Lower Upper

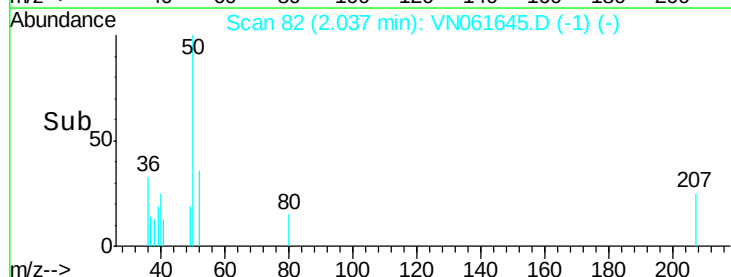
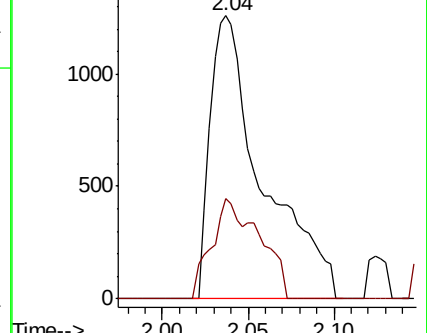
50 100

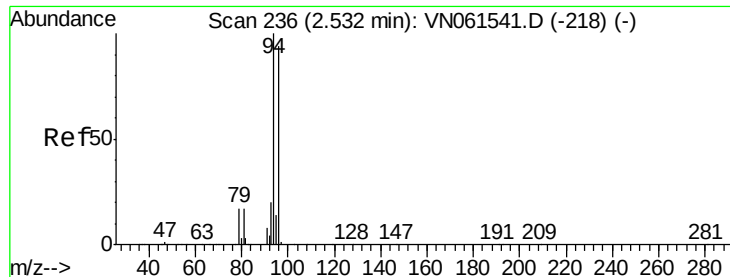
52 35.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.840 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

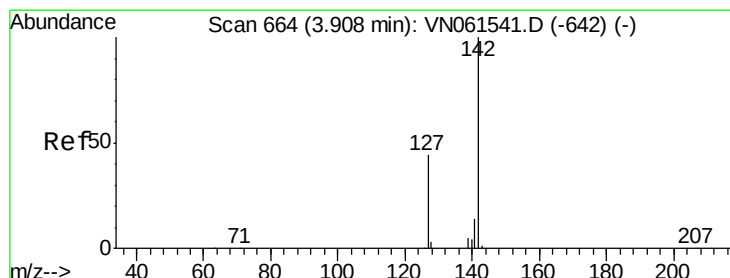
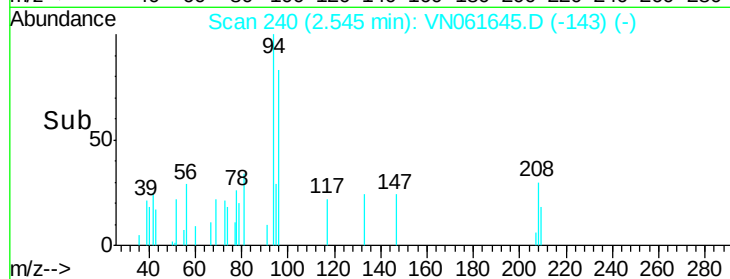
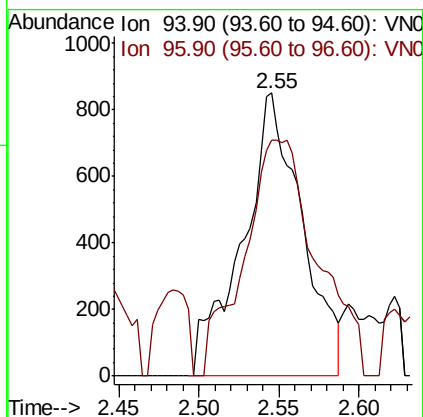
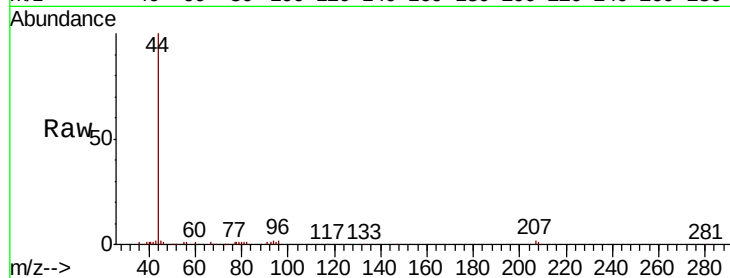
ClientSampled :

Tot Ion: 94 Resp: 2184

Ion Ratio Lower Upper

94 100

96 59.6 74.8 112.2#



#10

Methyl Iodide

Concen: 0.307 ug/l

RT: 3.91 min Scan# 664

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

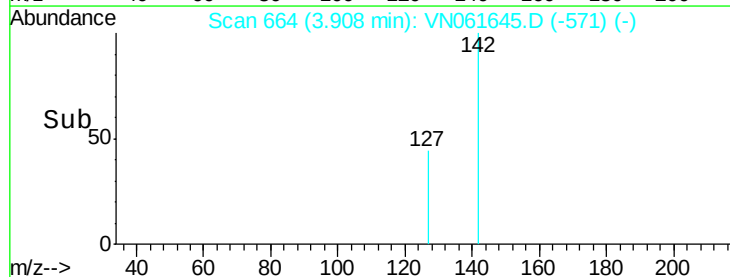
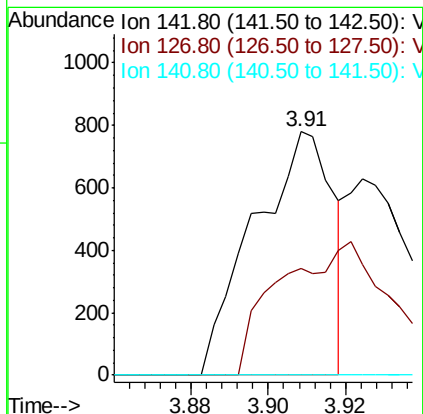
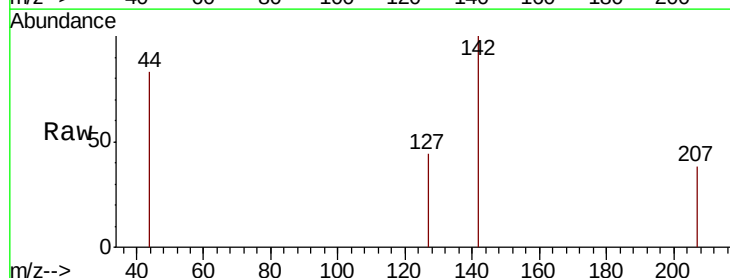
Tgt Ion: 142 Resp: 1106

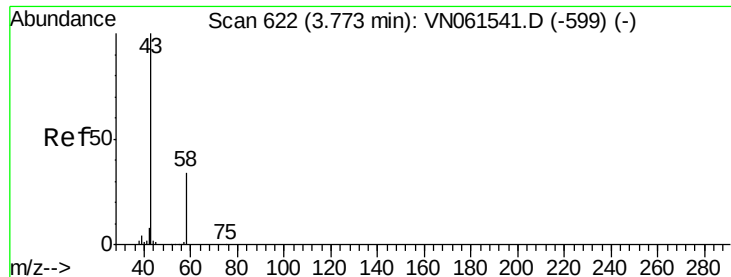
Ion Ratio Lower Upper

142 100

127 73.1 35.5 53.3#

141 0.0 11.5 17.3#





#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 619

Delta R.T. -0.01 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

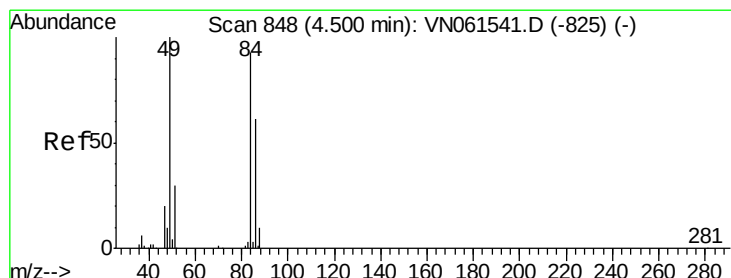
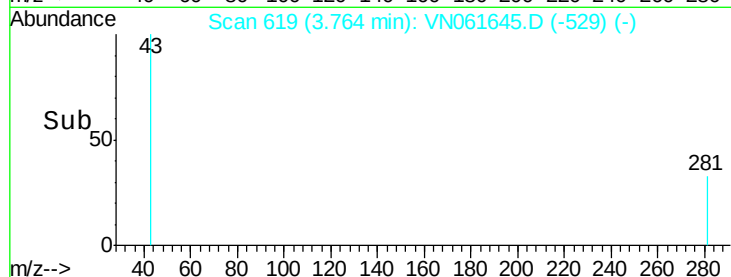
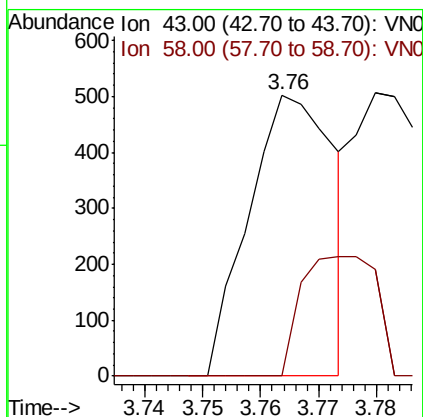
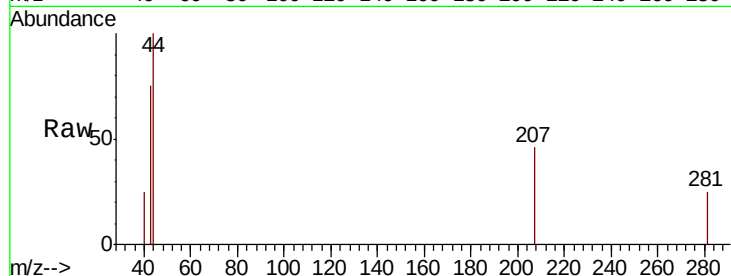
ClientSampleId :

Tot Ion: 43 Resp: 512

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Tgt Ion: 84 Resp: 638

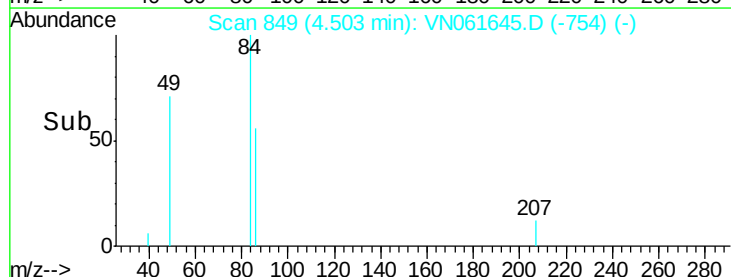
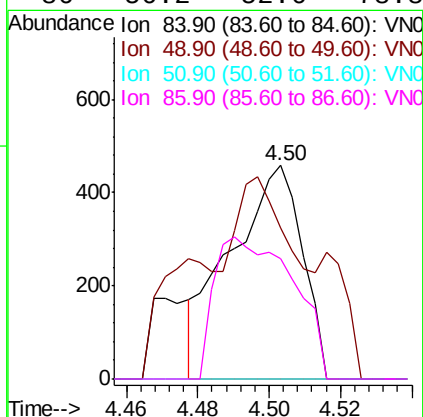
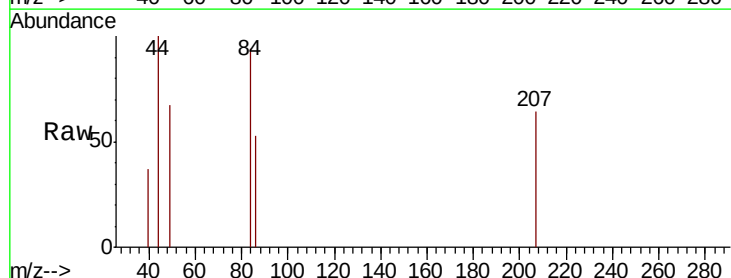
Ion Ratio Lower Upper

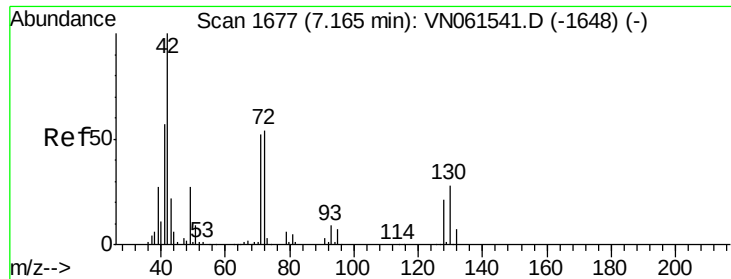
84 100

49 16.8 85.8 128.8#

51 0.0 26.2 39.2#

86 56.2 52.6 78.8

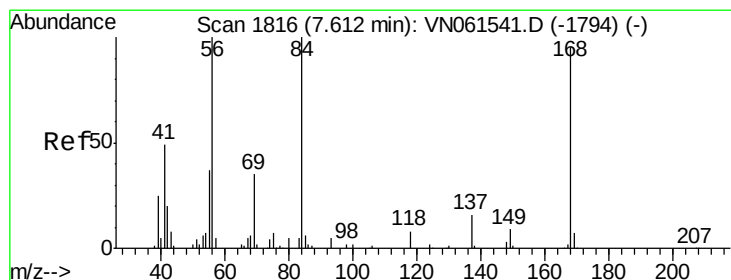
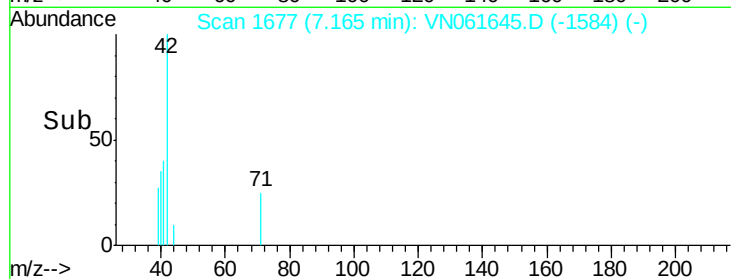
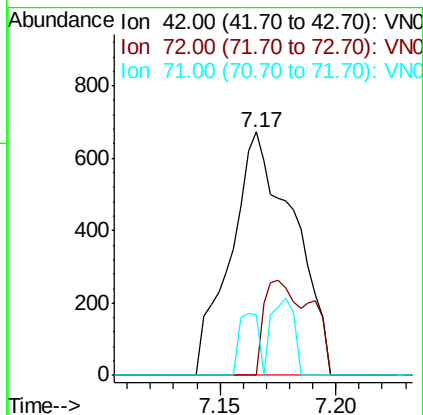
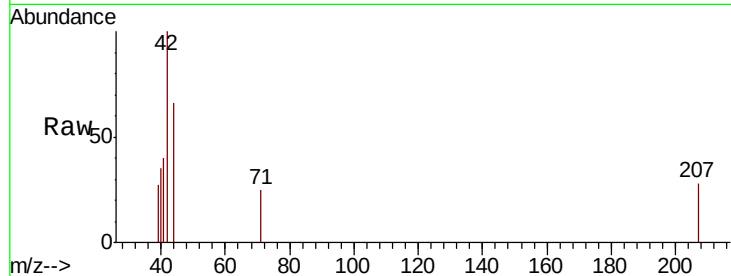




#29
Tetrahydrofuran
Concen: 1.263 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

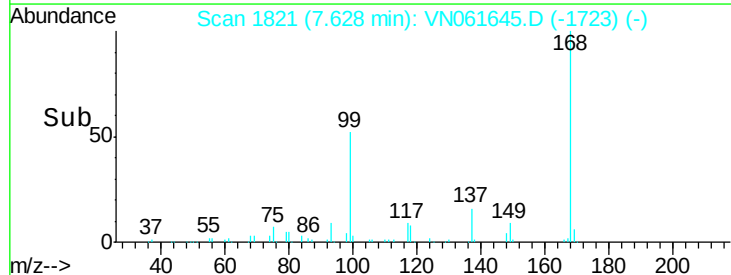
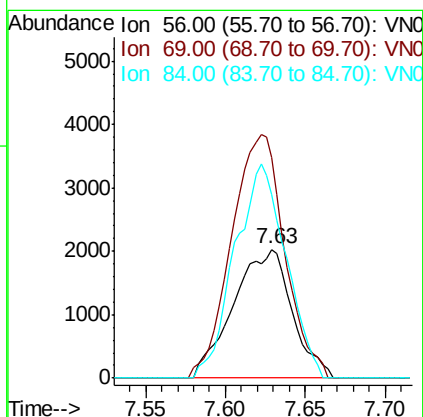
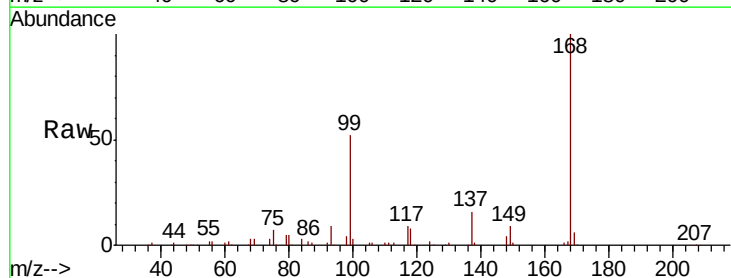
Instrument :
MSVOA_N
ClientSampleId :

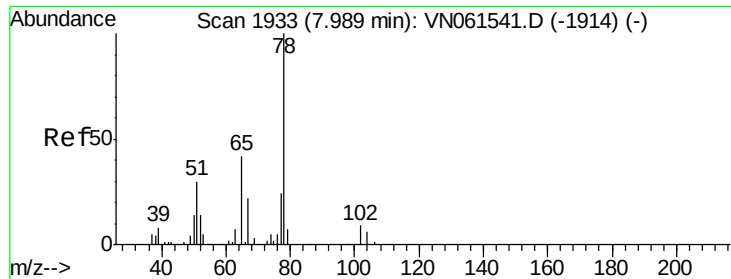
Tot Ion: 42 Resp: 1274
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 7.5 41.2 61.8#



#31
Cyclohexane
Concen: 1.120 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

Tgt Ion: 56 Resp: 5095
Ion Ratio Lower Upper
56 100
69 172.0 27.8 41.8#
84 142.7 79.9 119.9#

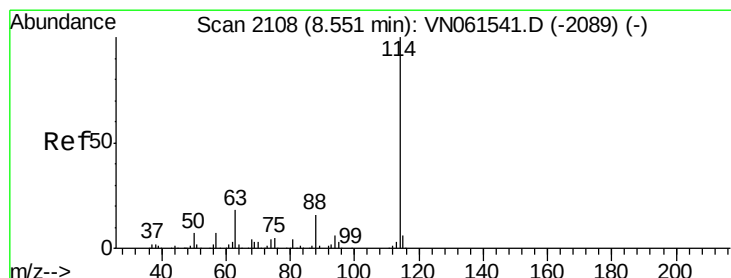
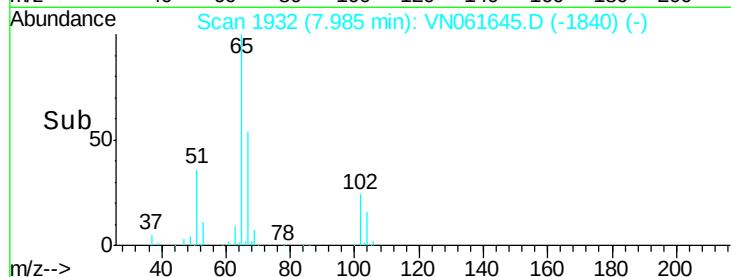
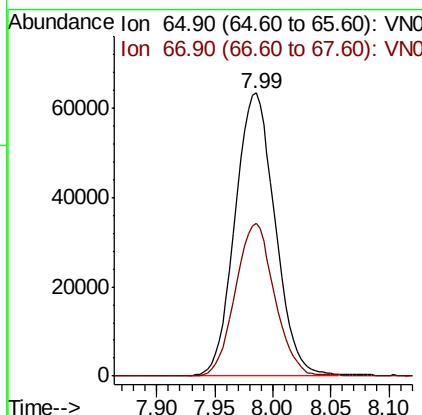
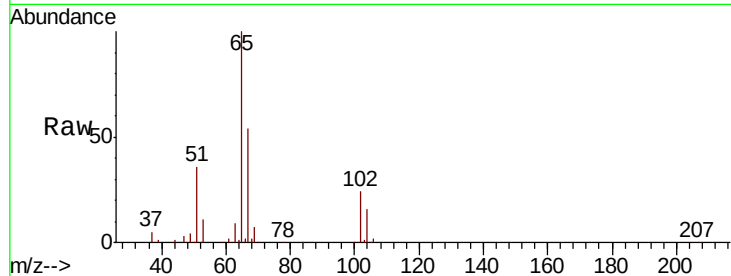




#33
 1,2-Dichloroethane-d4
 Concen: 47.181 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

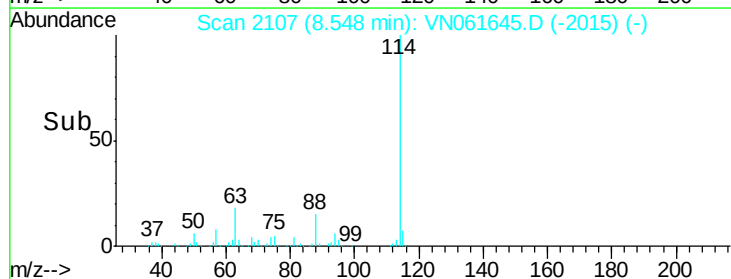
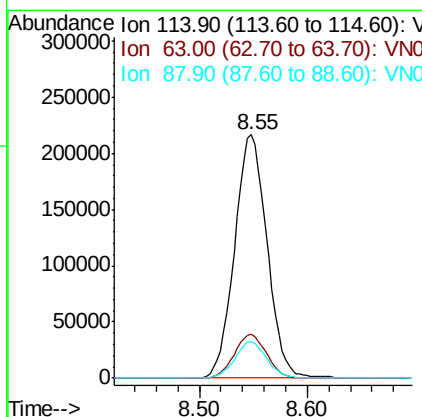
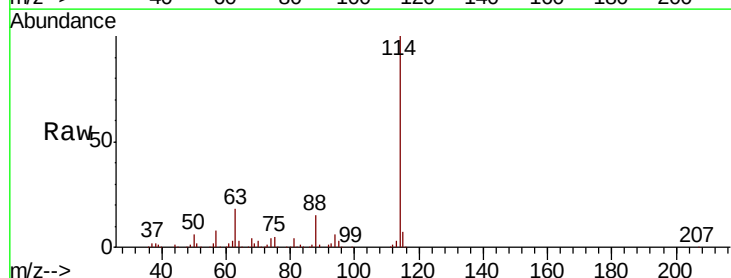
Instrument :
 MSVOA_N
 ClientSampleId :

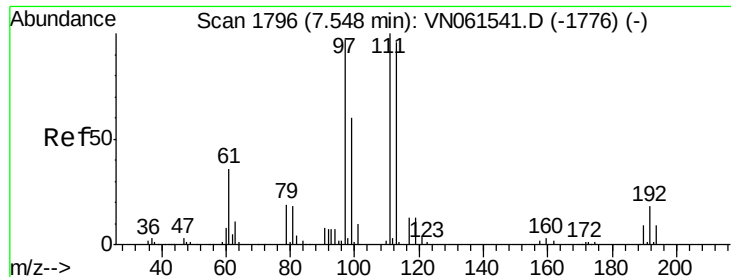
Tot Ion: 65 Resp: 152319
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

Tgt Ion: 114 Resp: 454054
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.8
 88 15.0 0.0 31.0

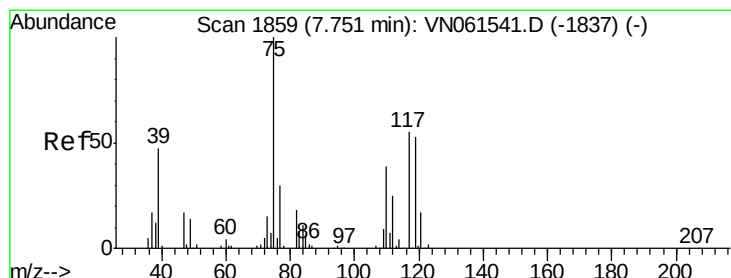
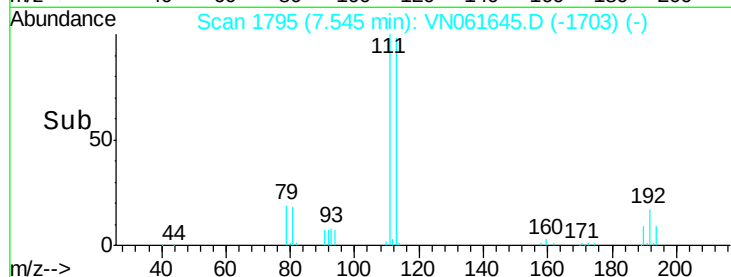
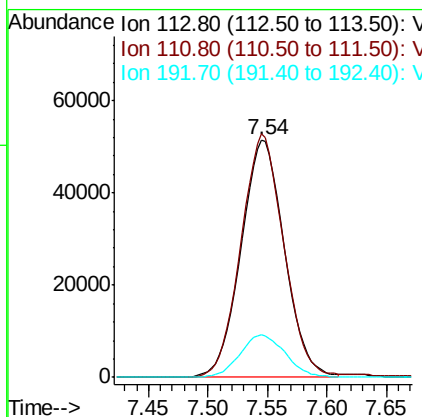
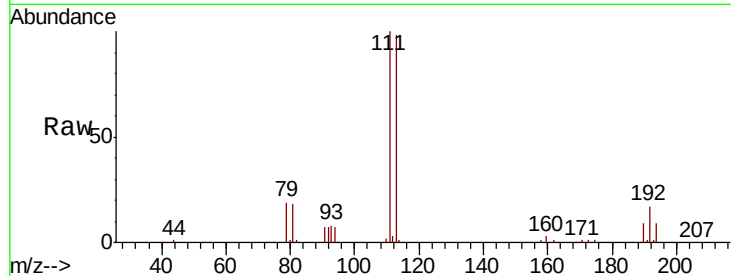




#35
 Dibromofluoromethane
 Concen: 56.368 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

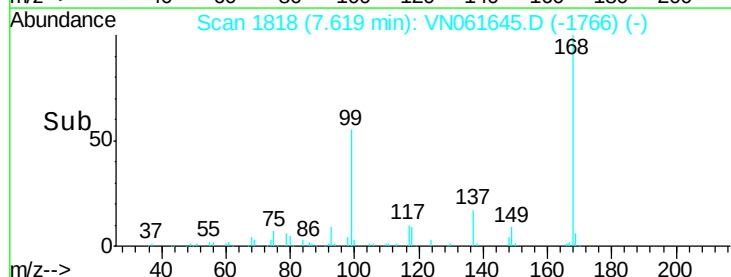
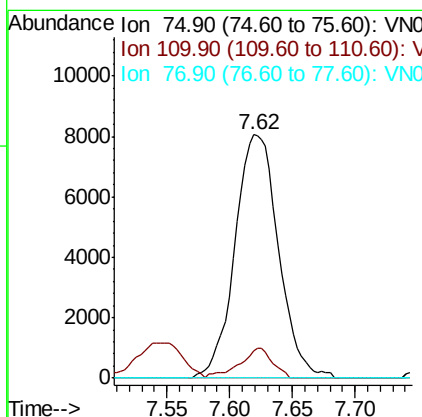
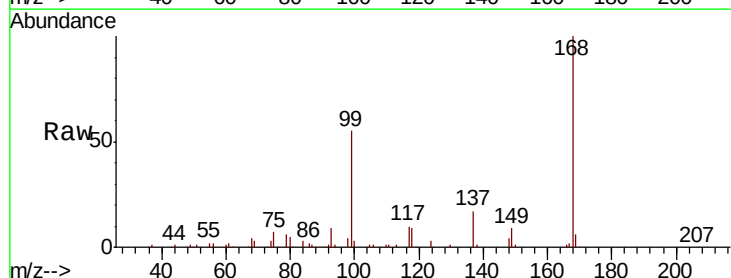
Instrument :
 MSVOA_N
 ClientSampleId :

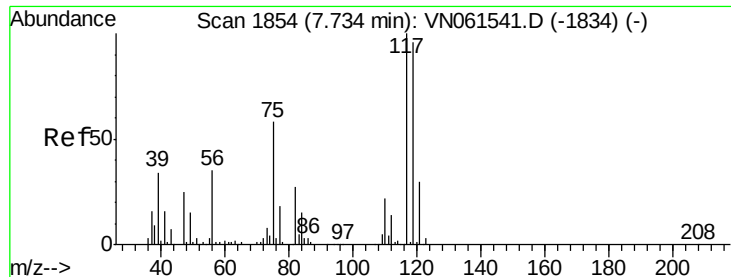
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.4	125.0
192	18.7	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.842 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.5	58.5#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.681 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.12 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :
MSVOA_N
ClientSampled :

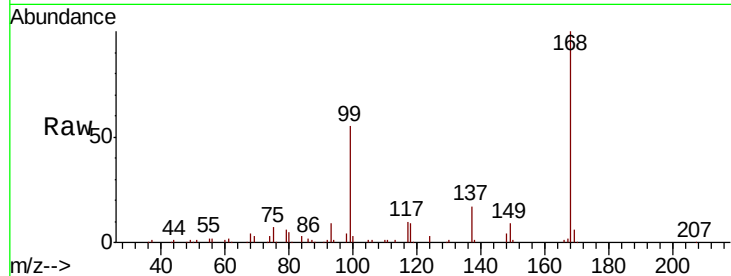
Tot Ion:117 Resp: 25904

Ion Ratio Lower Upper

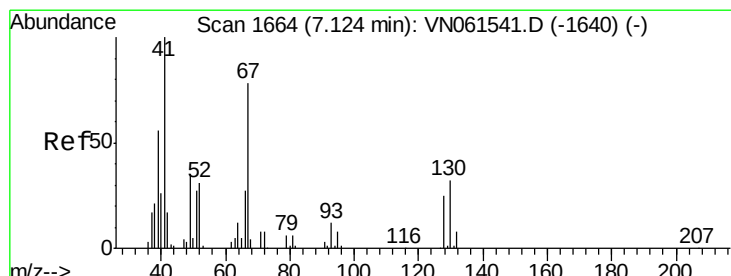
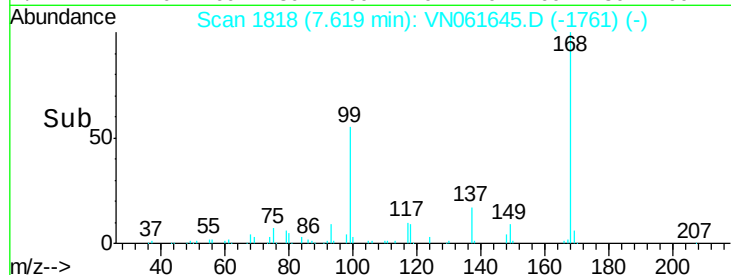
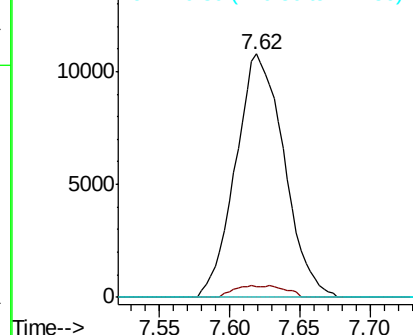
117 100

119 4.5 76.5 114.7#

121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.373 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. 0.03 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Tgt Ion: 41 Resp: 554

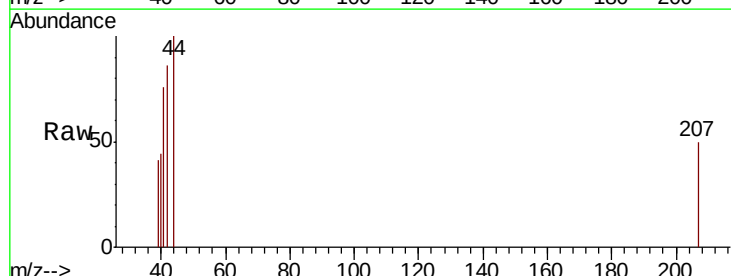
Ion Ratio Lower Upper

41 100

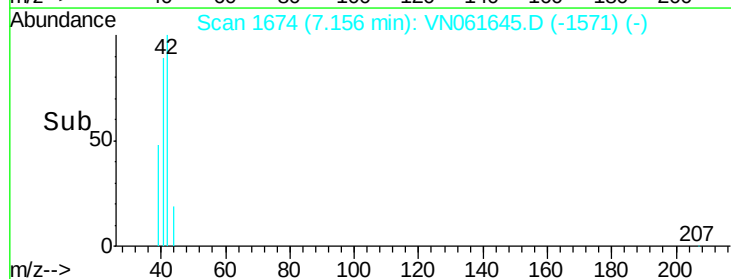
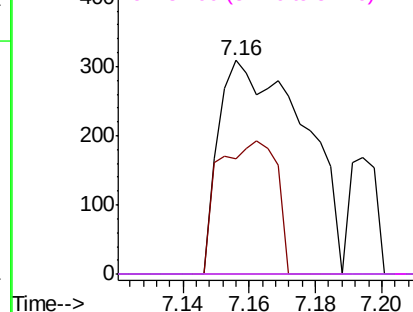
39 42.2 53.8 80.6#

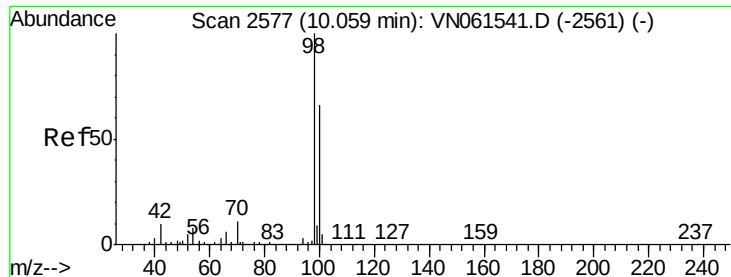
67 0.0 91.1 136.7#

52 0.0 36.0 54.0#



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 50.049 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

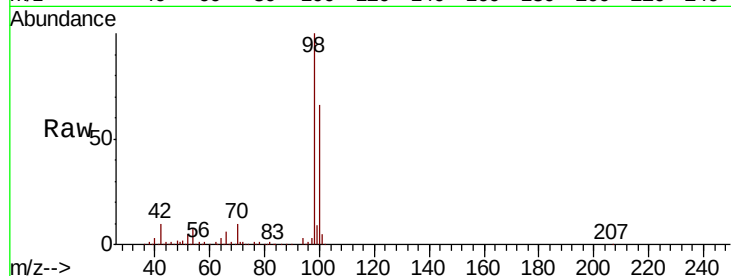
ClientSampled :

Tot Ion: 98 Resp: 534217

Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061541.D (-2561) (-)

10.06

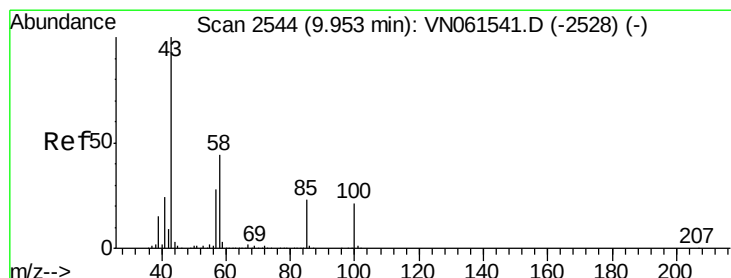
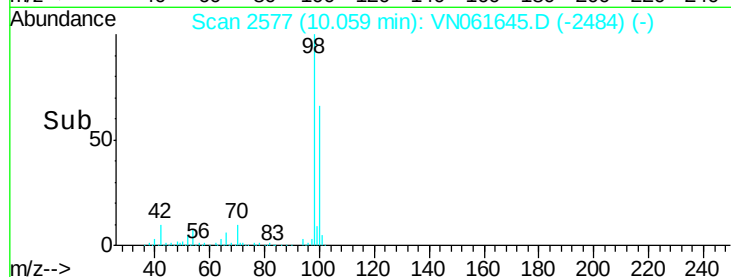
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.331 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061645.D

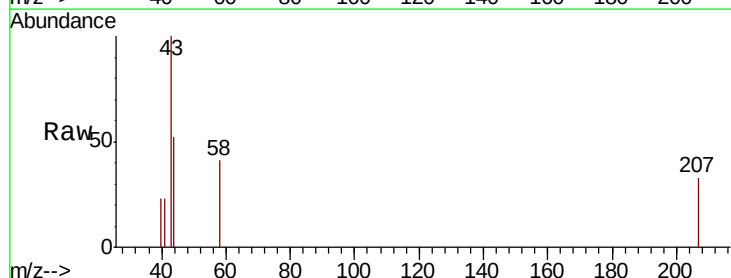
Acq: 4 Jun 2020 11:40

Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 36.0 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)

9.95

800

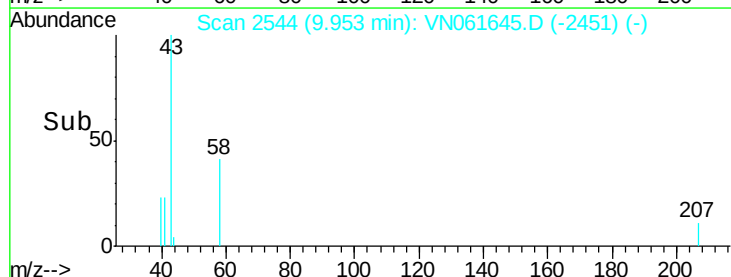
600

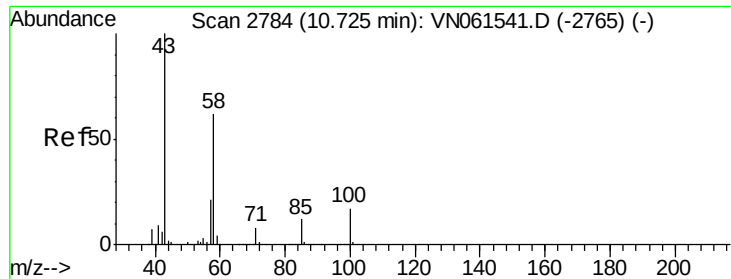
400

200

0

Time-->

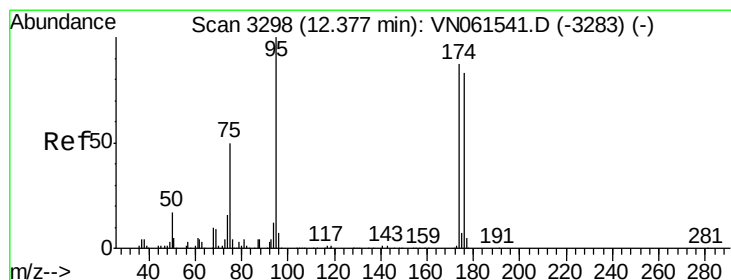
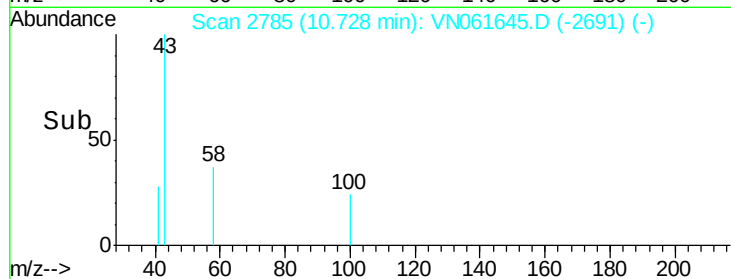
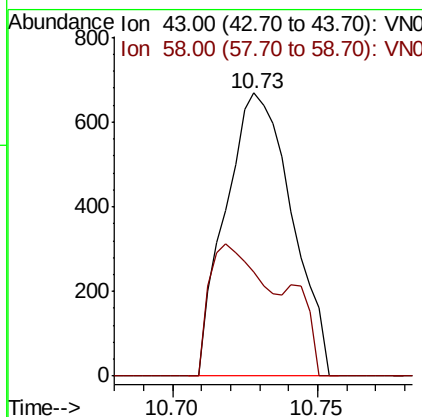
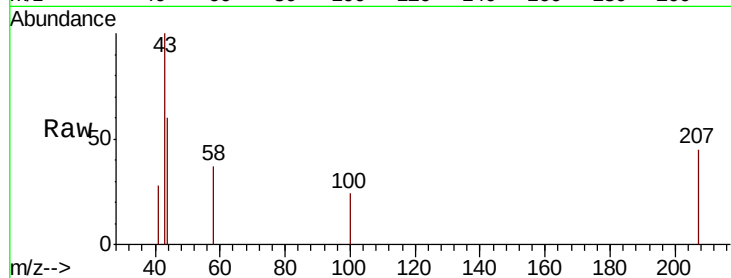




#59
2-Hexanone
Concen: 0.451 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.00 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

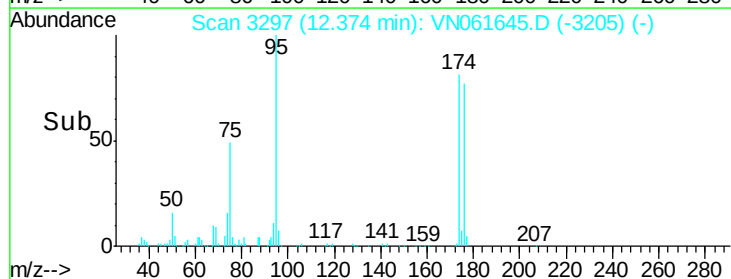
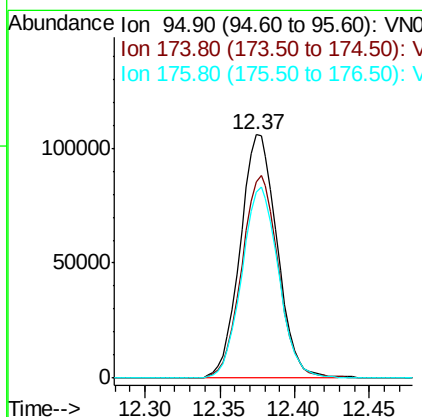
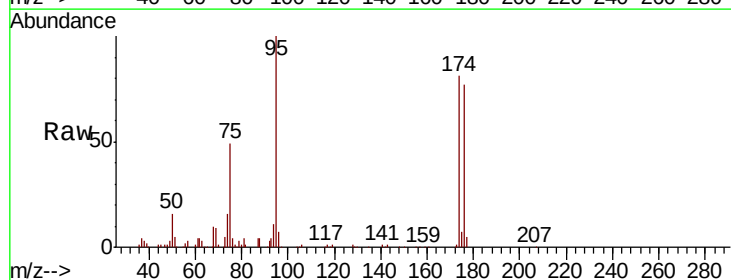
Instrument :
MSVOA_N
ClientSampleId :

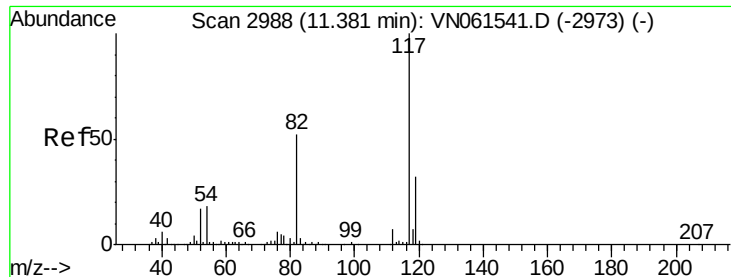
Tot Ion: 43 Resp: 1062
Ion Ratio Lower Upper
43 100
58 40.4 30.7 92.1



#62
4-Bromofluorobenzene
Concen: 46.738 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

Tgt Ion: 95 Resp: 182009
Ion Ratio Lower Upper
95 100
174 82.9 0.0 172.8
176 78.2 0.0 164.8

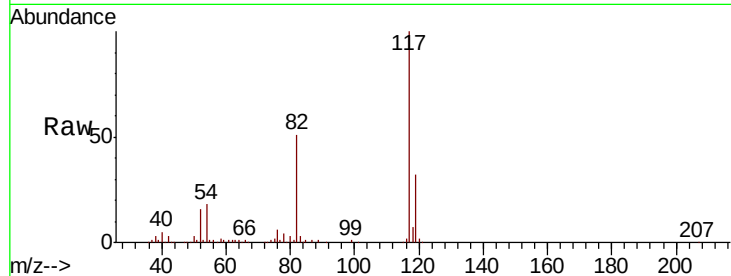




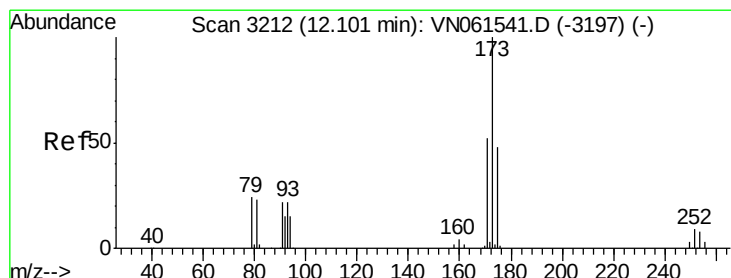
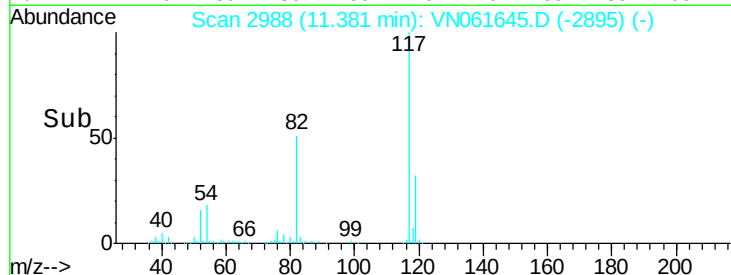
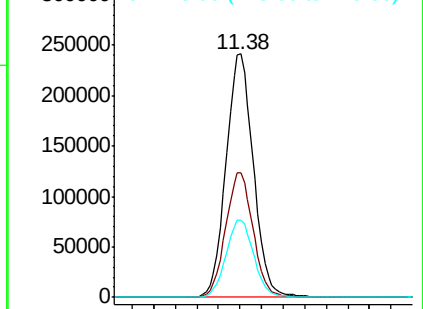
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 426572
Ion Ratio Lower Upper
117 100
82 51.1 41.5 62.3
119 31.9 25.6 38.4

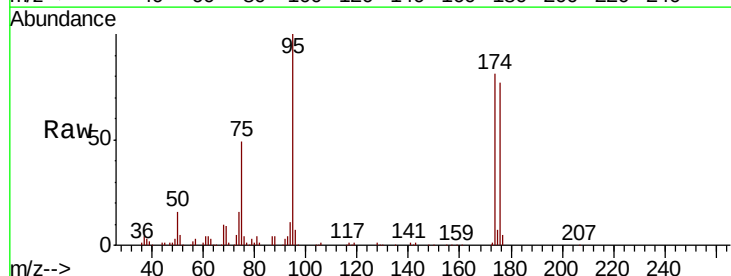


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

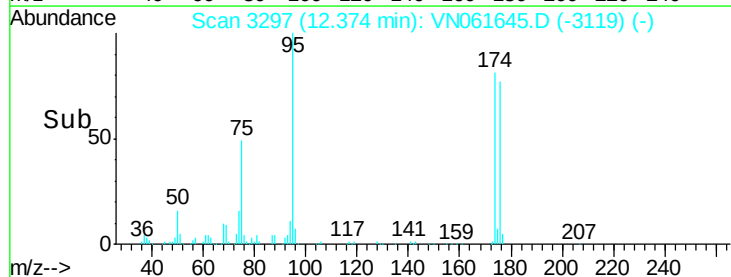
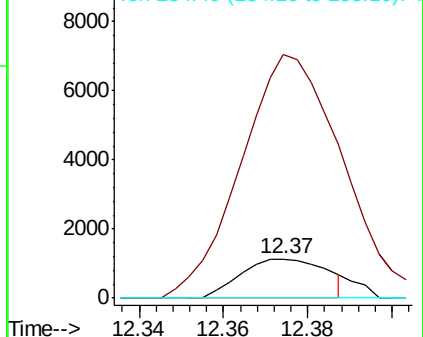


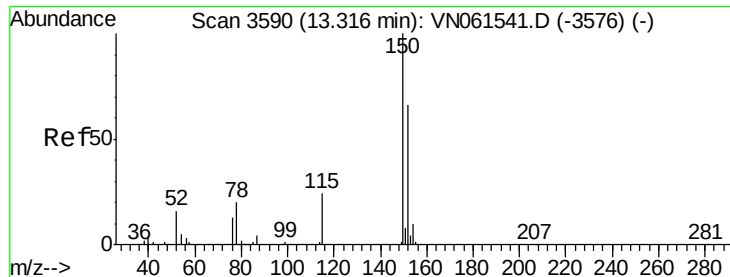
#71
Bromoform
Concen: 0.625 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061645.D
Acq: 4 Jun 2020 11:40

Tgt Ion:173 Resp: 1591
Ion Ratio Lower Upper
173 100
175 637.5 24.4 73.2#
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: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

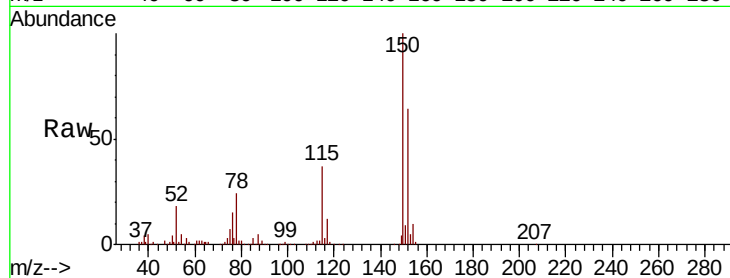
Tot Ion:152 Resp: 167370

Ion Ratio Lower Upper

152 100

115 57.7 28.0 84.0

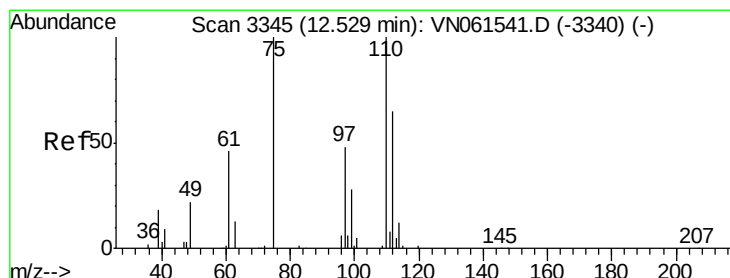
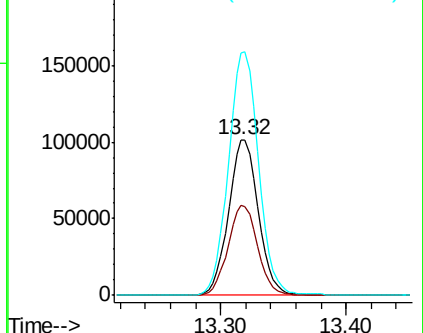
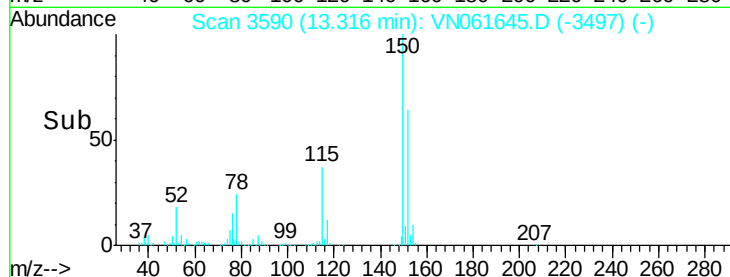
150 158.3 0.0 344.0



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



#76

1,2,3-Trichloropropane

Concen: 29.027 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061645.D

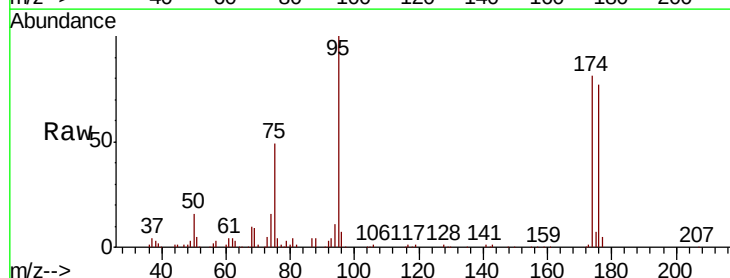
Acq: 4 Jun 2020 11:40

Tgt Ion: 75 Resp: 88341

Ion Ratio Lower Upper

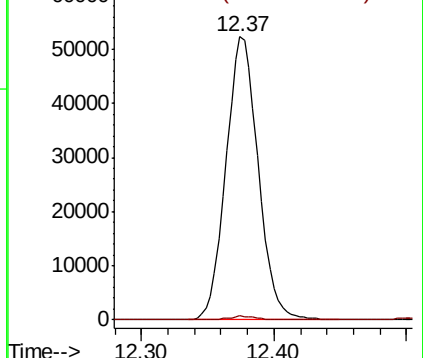
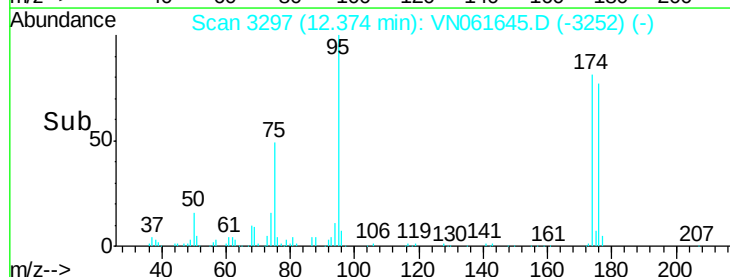
75 100

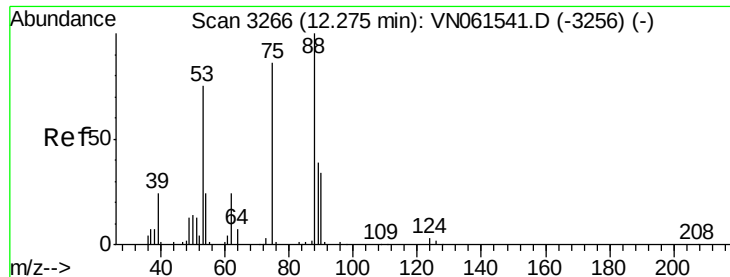
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.229 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

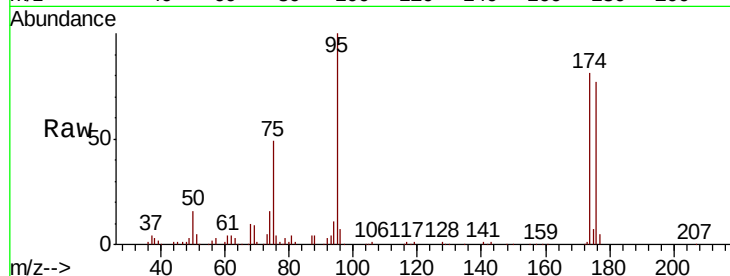
Tot Ion: 75 Resp: 88341

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

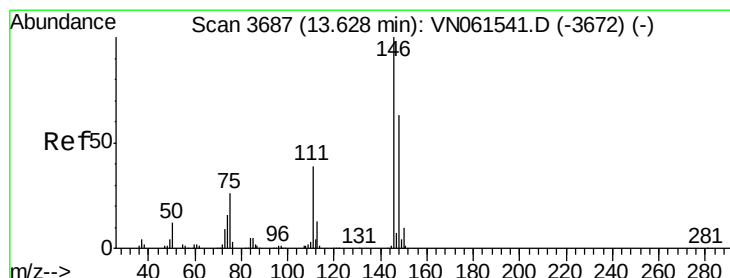
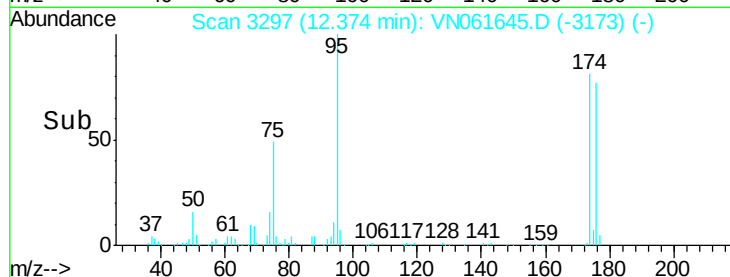
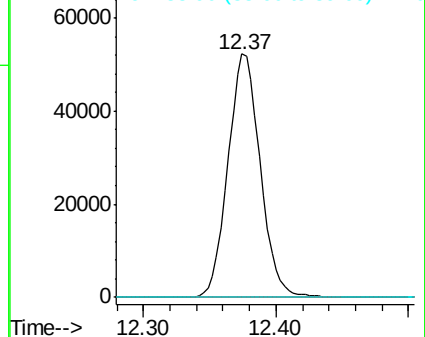
89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN061645.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN061645.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN061645.D (-3173) (-)



#91

1,2-Dichlorobenzene

Concen: 0.217 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

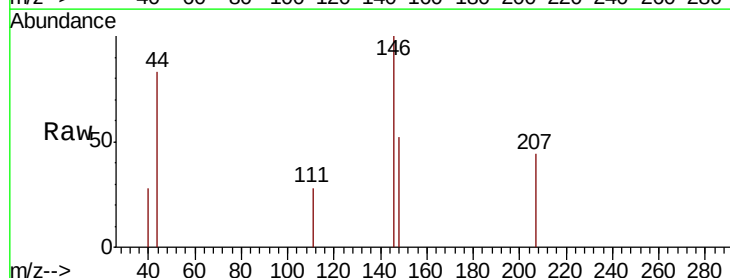
Tgt Ion: 146 Resp: 1147

Ion Ratio Lower Upper

146 100

111 13.9 20.1 60.2#

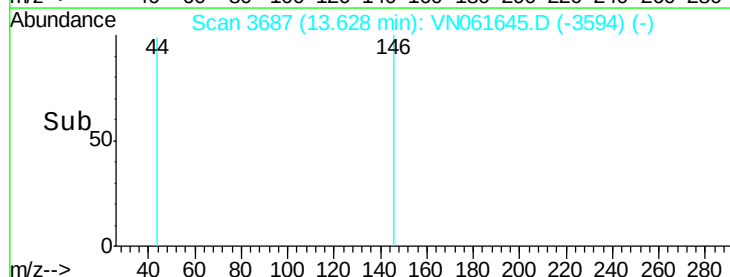
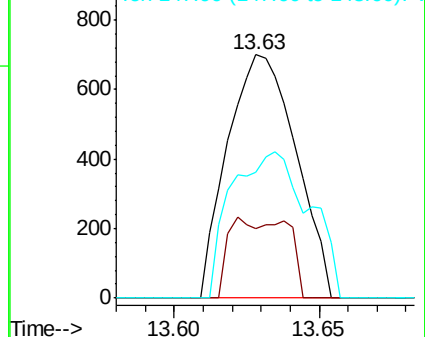
148 68.4 31.9 95.5

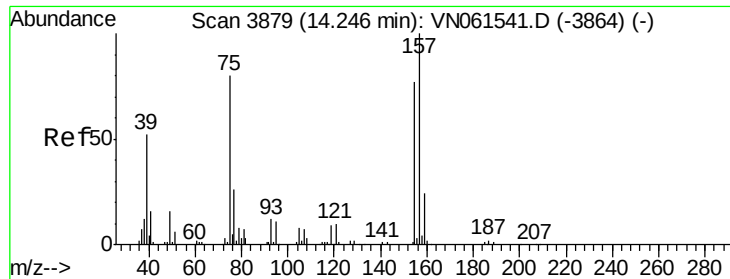


Abundance Ion 145.90 (145.60 to 146.60): VN061645.D (-3594) (-)

Ion 110.90 (110.60 to 111.60): VN061645.D (-3594) (-)

Ion 147.90 (147.60 to 148.60): VN061645.D (-3594) (-)

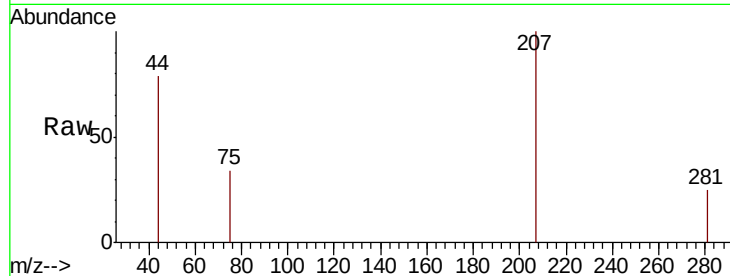




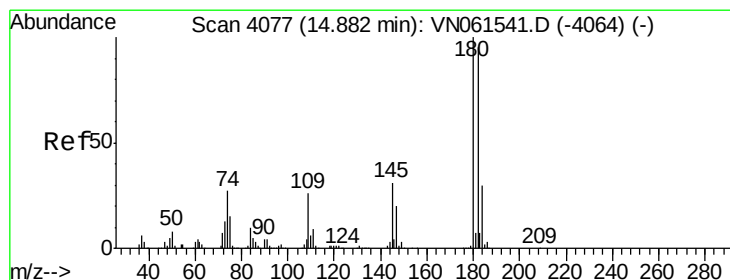
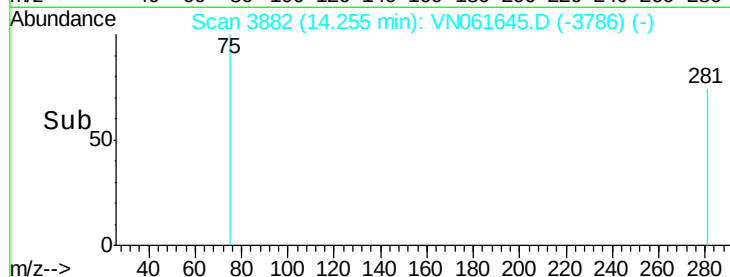
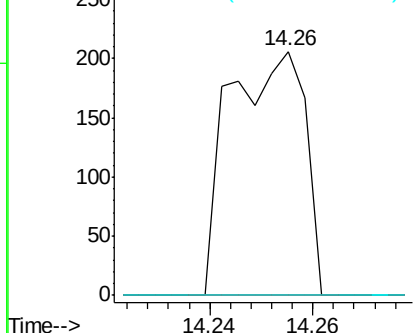
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.298 ug/l
 RT: 14.26 min Scan# 3882
 Delta R.T. 0.01 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 208
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.1 141.4#
 157 0.0 60.3 180.8#

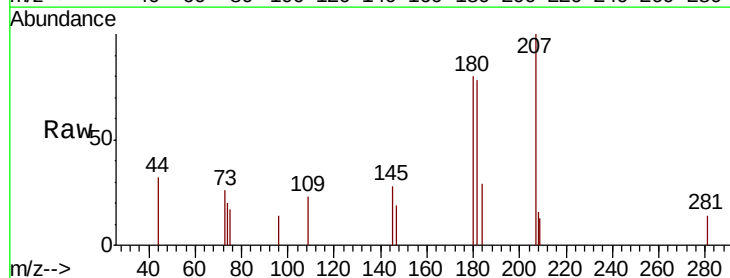


Abundance Ion 74.90 (74.60 to 75.60): VN061645.D (-3786) (-)
 Ion 154.80 (154.50 to 155.50): VN061645.D (-3786) (-)
 Ion 156.80 (156.50 to 157.50): VN061645.D (-3786) (-)

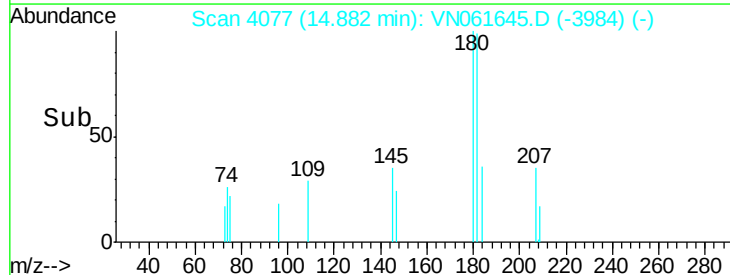
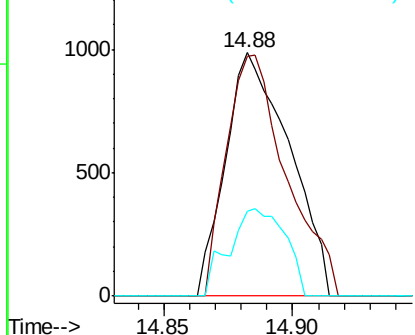


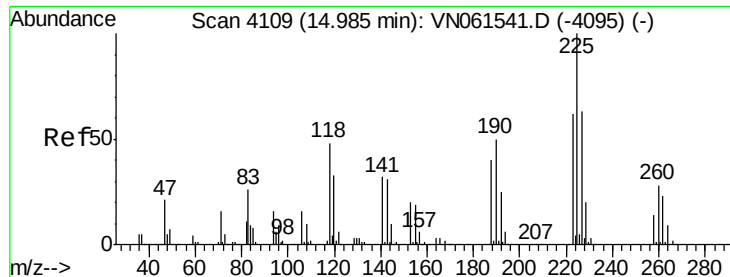
#93
 1,2,4-Trichlorobenzene
 Concen: 0.552 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

Tgt Ion: 180 Resp: 1704
 Ion Ratio Lower Upper
 180 100
 182 93.0 47.8 143.3
 145 31.7 15.5 46.5



Abundance Ion 179.80 (179.50 to 180.50): VN061645.D (-3984) (-)
 Ion 181.80 (181.50 to 182.50): VN061645.D (-3984) (-)
 Ion 144.80 (144.50 to 145.50): VN061645.D (-3984) (-)





#94

Hexachlorobutadiene

Concen: 0.799 ug/l

RT: 14.99 min Scan# 4110

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

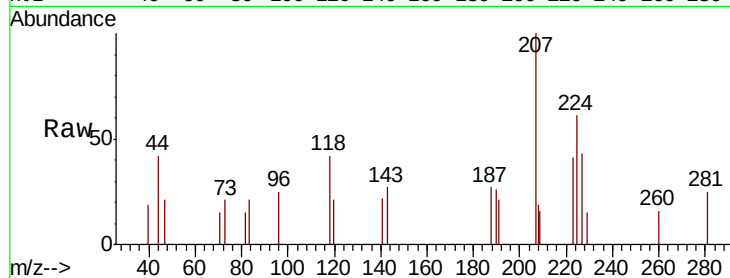
Tot Ion:225 Resp: 1052

Ion Ratio Lower Upper

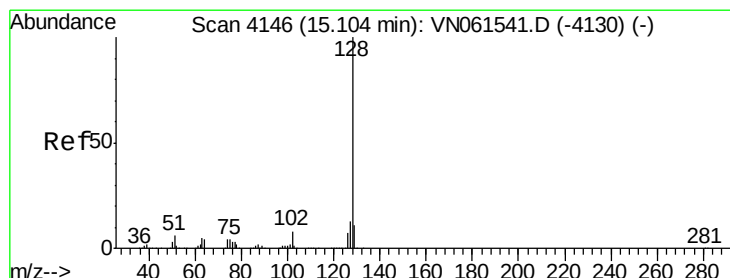
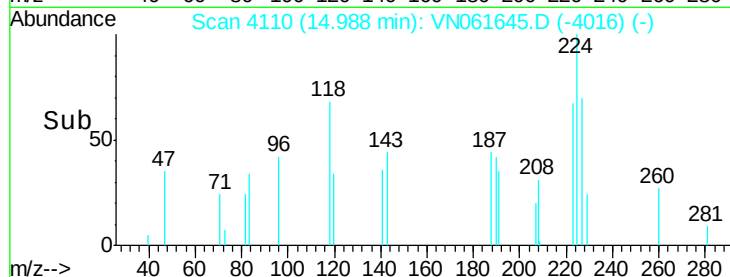
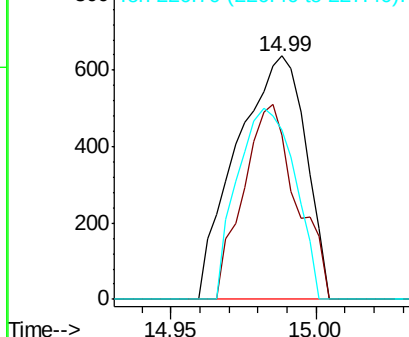
225 100

223 61.9 31.9 95.5

227 65.5 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.868 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061645.D

Acq: 4 Jun 2020 11:40

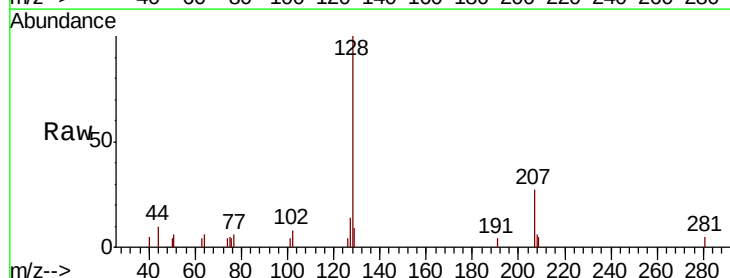
Tgt Ion:128 Resp: 8156

Ion Ratio Lower Upper

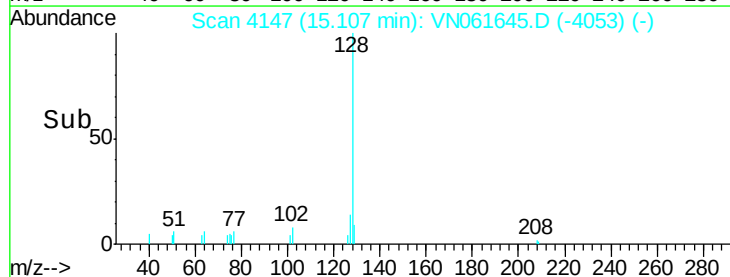
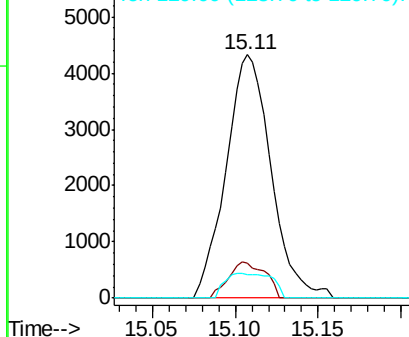
128 100

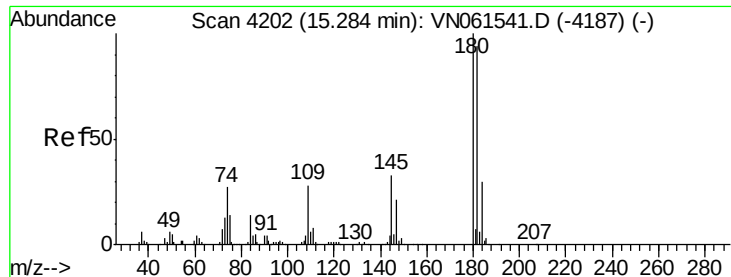
127 12.1 10.0 15.0

129 10.4 8.5 12.7



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.762 ug/l
 RT: 15.28 min Scan# 4201
 Delta R.T. -0.00 min
 Lab File: VN061645.D
 Acq: 4 Jun 2020 11:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.8	47.1	141.3
145	37.2	16.3	48.9

