

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062209.D
 Acq On : 30 Jun 2020 00:57
 Operator : JC/MD
 Sample : PB129817TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129817TB

Quant Time: Jun 30 04:32:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	200978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	378887	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	361388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	126377	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	147890	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	
35) Dibromofluoromethane	7.55	113	123358	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.06	98	487170	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.38	95	150409	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

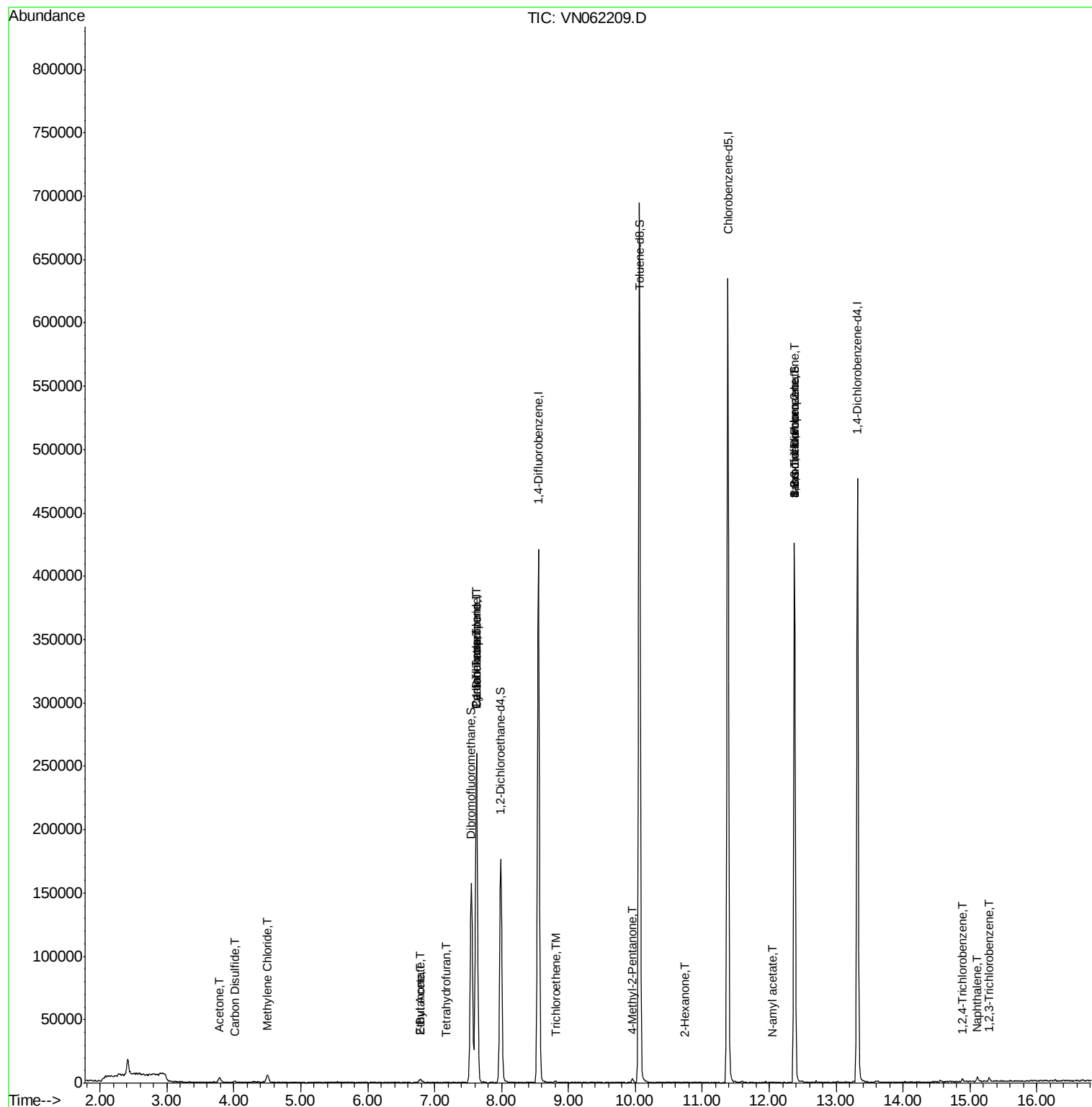
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	292	Below Cal	#	41
16) Acetone	3.78	43	5857	2.607	ug/l #	84
17) Carbon Disulfide	4.01	76	2027	0.357	ug/l #	75
20) Methylene Chloride	4.50	84	4678	1.597	ug/l #	82
25) 2-Butanone	6.80	43	1206	0.875	ug/l	100
29) Tetrahydrofuran	7.18	42	373	0.413	ug/l #	39
31) Cyclohexane	7.63	56	5369	1.378	ug/l #	45
36) 1,1-Dichloropropene	7.63	75	17900	4.700	ug/l #	47
37) Ethyl Acetate	6.80	43	1206	0.382	ug/l #	73
38) Carbon Tetrachloride	7.63	117	20443	5.694	ug/l #	16
44) Trichloroethene	8.81	130	620	0.212	ug/l	86
51) 4-Methyl-2-Pentanone	9.95	43	2126	0.708	ug/l	91
59) 2-Hexanone	10.73	43	593	0.273	ug/l #	21
71) Bromoform	12.37	173	790	0.405	ug/l #	1
74) N-amyl acetate	12.05	43	203	3.396	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	78572	26.411	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	78572	77.129	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.89	180	787	0.436	ug/l	92
95) Naphthalene	15.11	128	4418	4.670	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.29	180	1139	0.617	ug/l	96

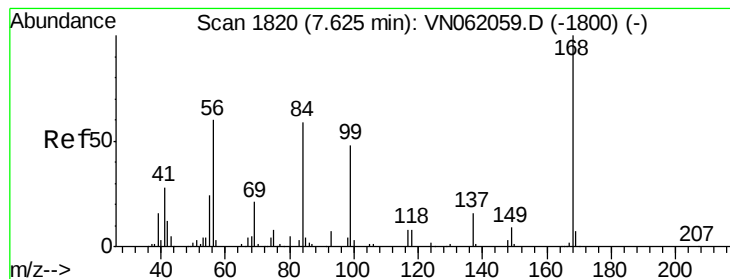
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampleId :

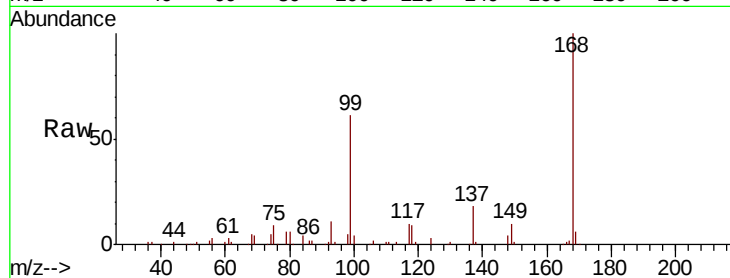
PB129817TB

Tot Ion:168 Resp: 200978

Ion Ratio Lower Upper

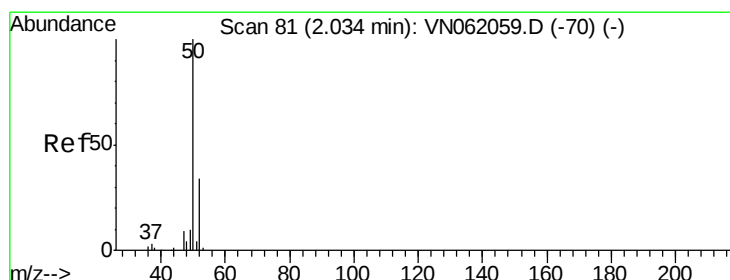
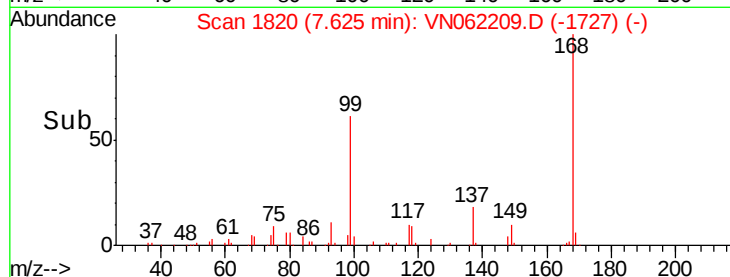
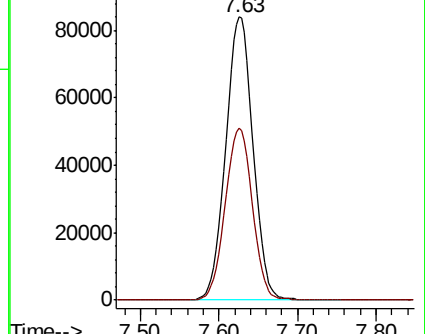
168 100

99 61.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062209.D

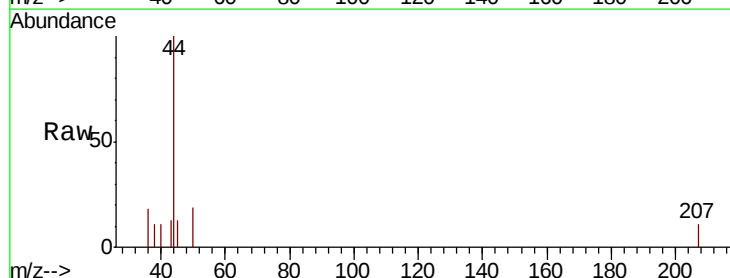
Acq: 30 Jun 2020 00:57

Tgt Ion: 50 Resp: 292

Ion Ratio Lower Upper

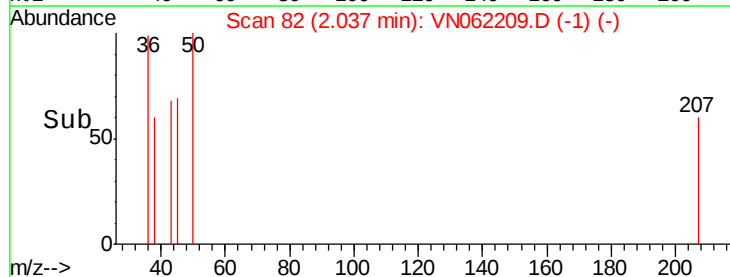
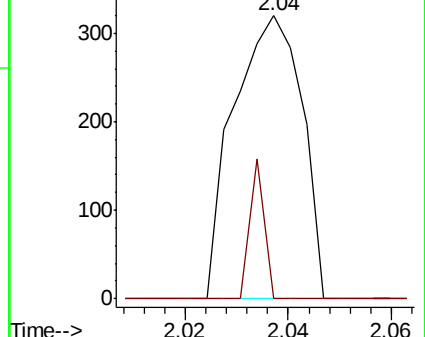
50 100

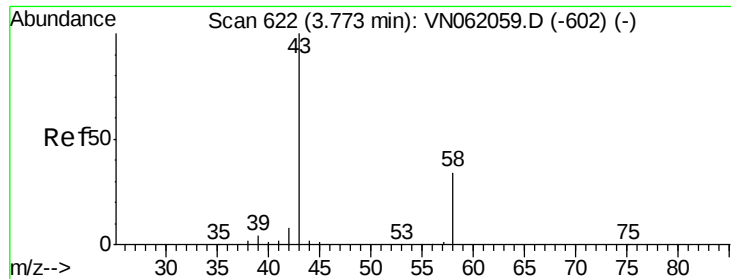
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 2.607 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampleId :

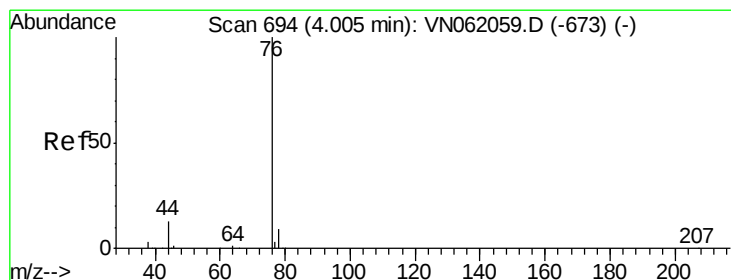
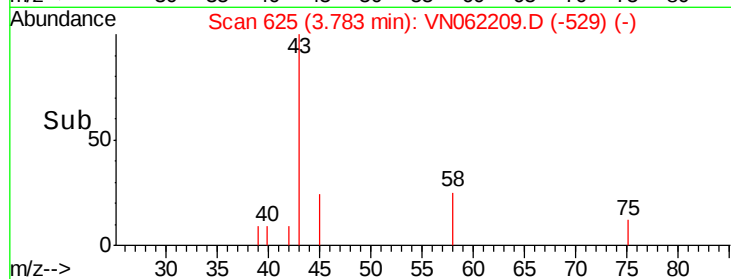
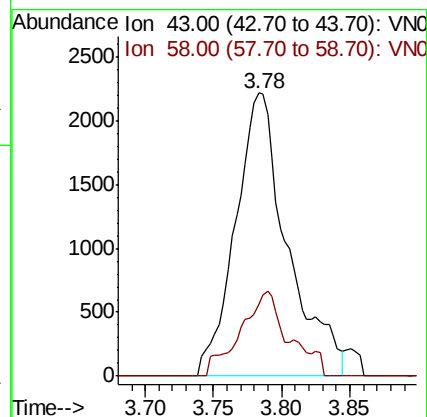
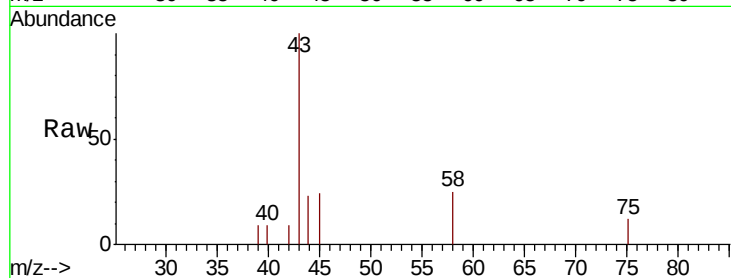
PB129817TB

Tot Ion: 43 Resp: 5857

Ion Ratio Lower Upper

43 100

58 25.4 27.5 41.3#



#17

Carbon Disulfide

Concen: 0.357 ug/l

RT: 4.01 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN062209.D

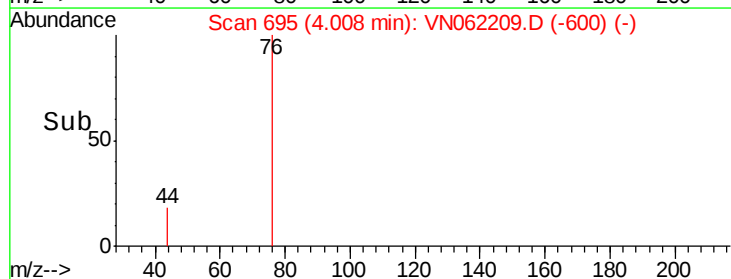
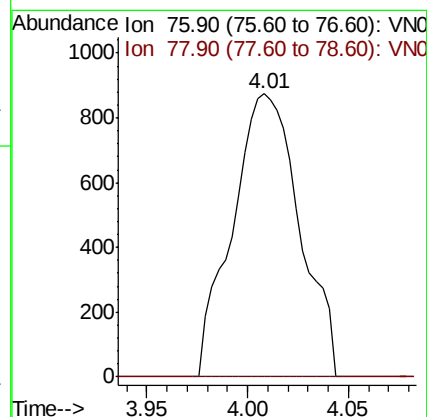
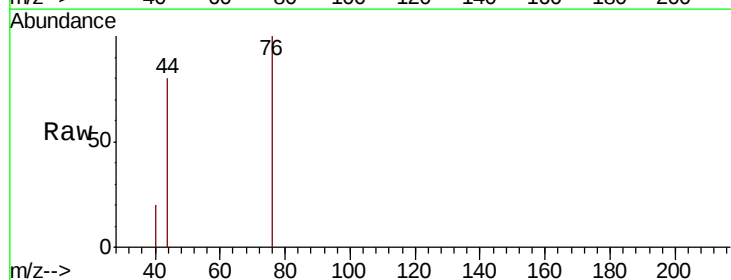
Acq: 30 Jun 2020 00:57

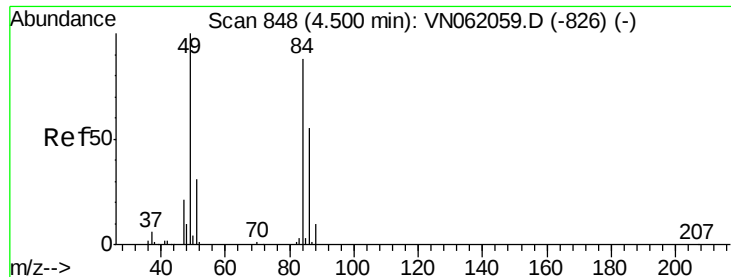
Tgt Ion: 76 Resp: 2027

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

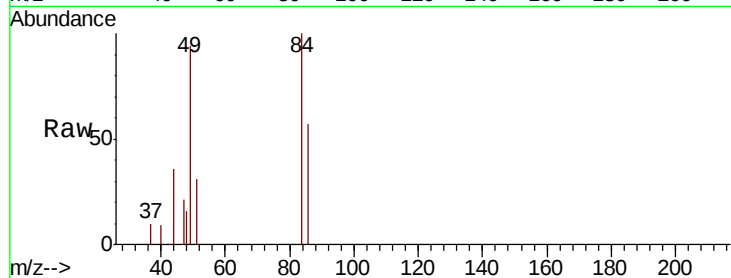




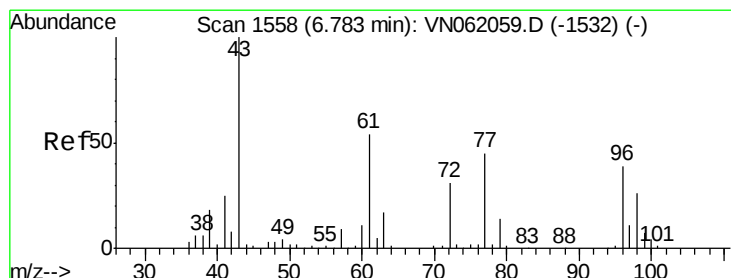
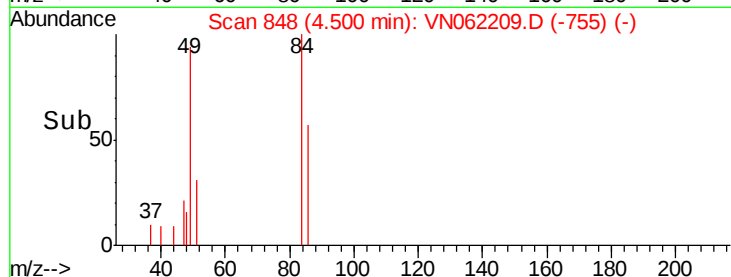
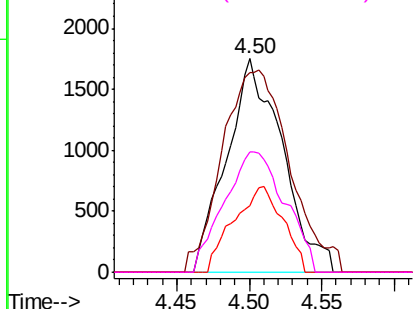
#20
Methvlene Chloride
Concen: 1.597 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Instrument :
MSVOA_N
ClientSampled :
PB129817TB

Tot Ion:	84	Resp:	4678
Ion	Ratio	Lower	Upper
84	100		
49	84.2	90.6	136.0#
51	31.4	27.8	41.8
86	56.6	50.1	75.1

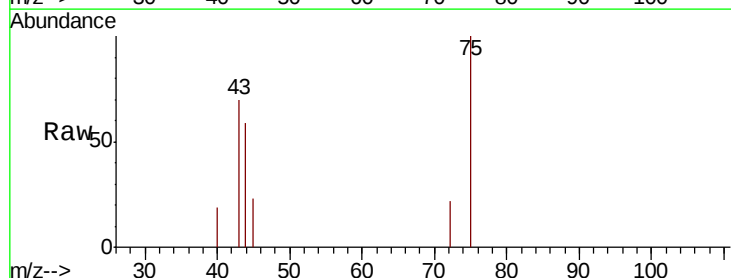


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

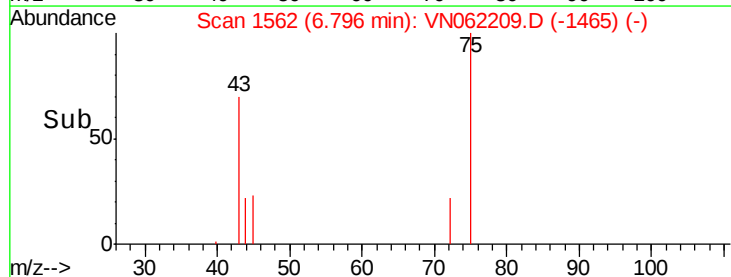
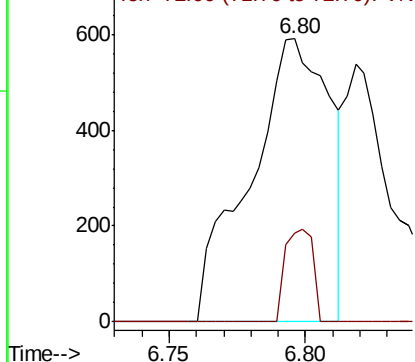


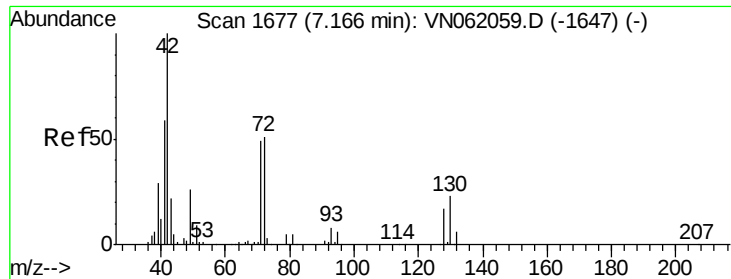
#25
2-Butanone
Concen: 0.875 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Tgt Ion:	43	Resp:	1206
Ion	Ratio	Lower	Upper
43	100		
72	31.1	24.8	37.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.413 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampleId :

PB129817TB

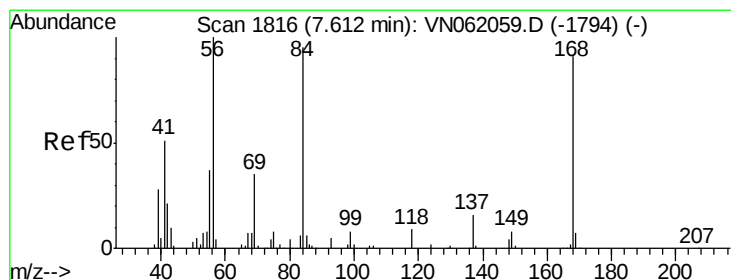
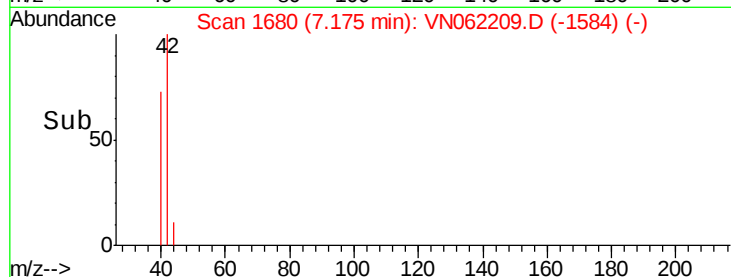
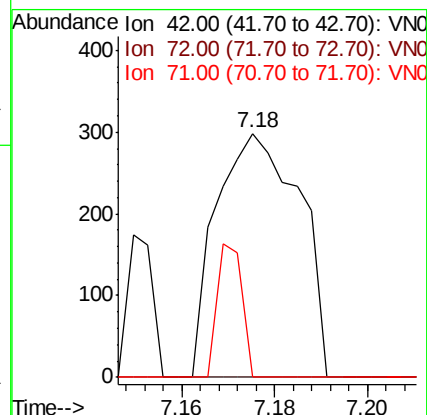
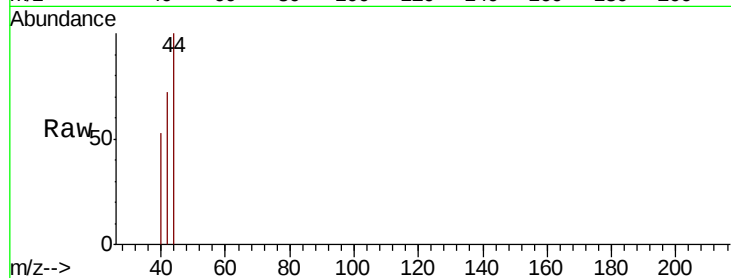
Tot Ion: 42 Resp: 373

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 16.4 38.2 57.4#



#31

Cyclohexane

Concen: 1.378 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

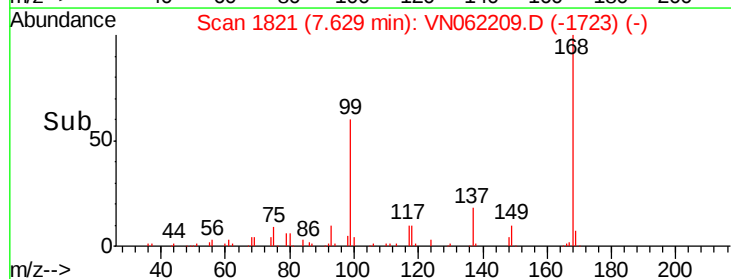
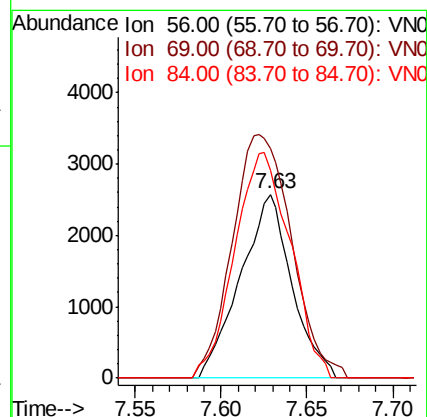
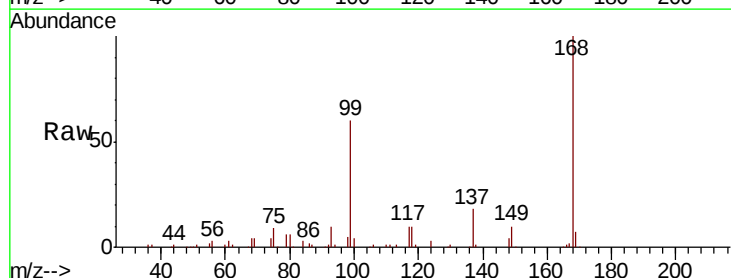
Tgt Ion: 56 Resp: 5369

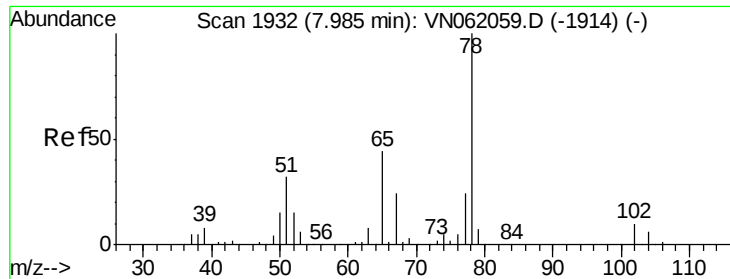
Ion Ratio Lower Upper

56 100

69 125.2 28.0 42.0#

84 113.3 76.1 114.1

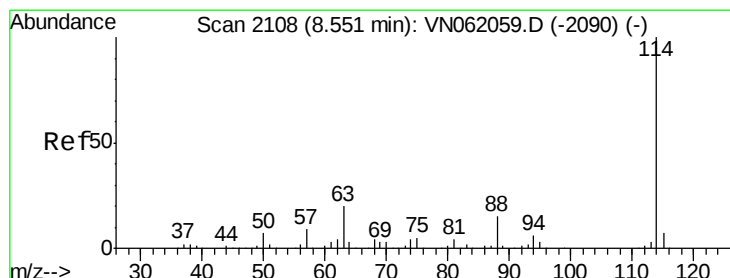
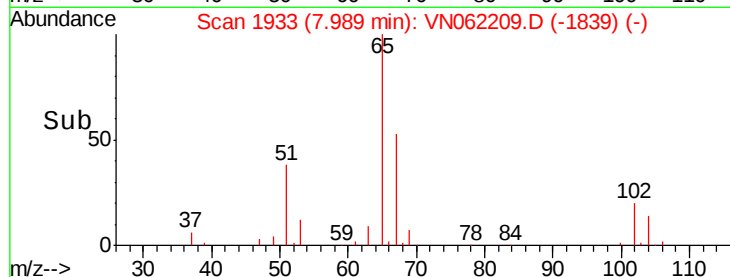
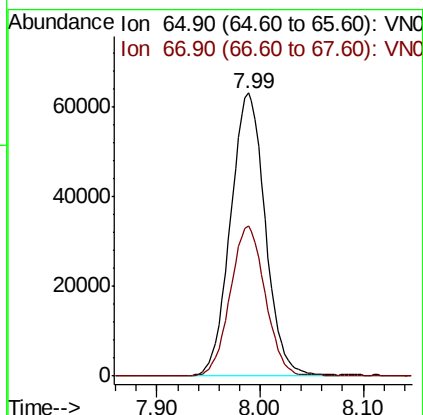
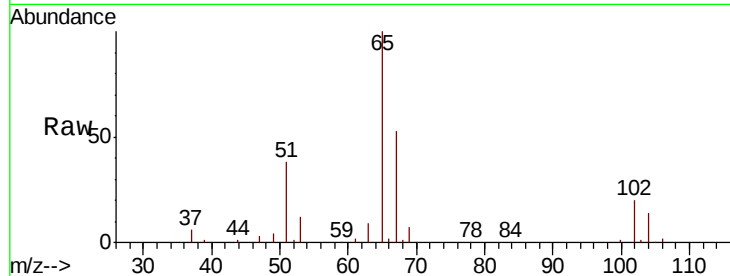




#33
 1,2-Dichloroethane-d4
 Concen: 52.436 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062209.D
 Acq: 30 Jun 2020 00:57

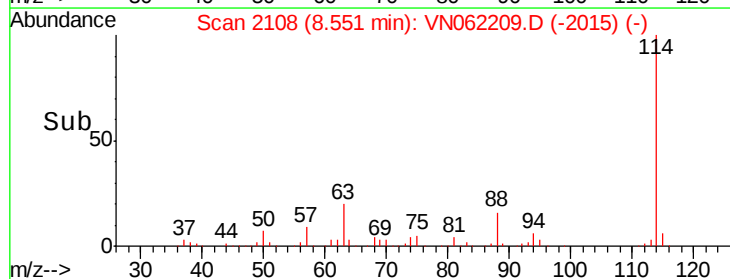
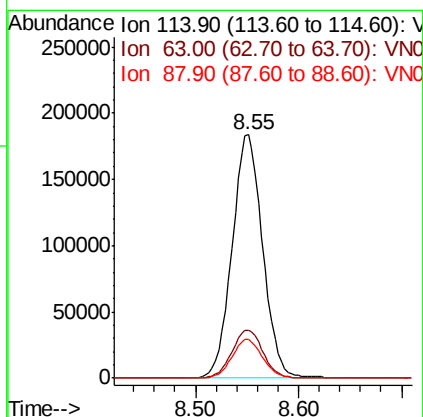
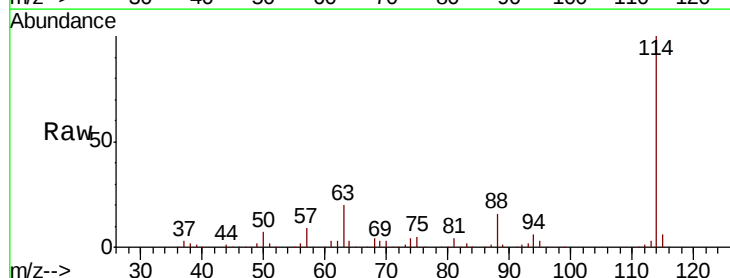
Instrument :
 MSVOA_N
 ClientSampled :
 PB129817TB

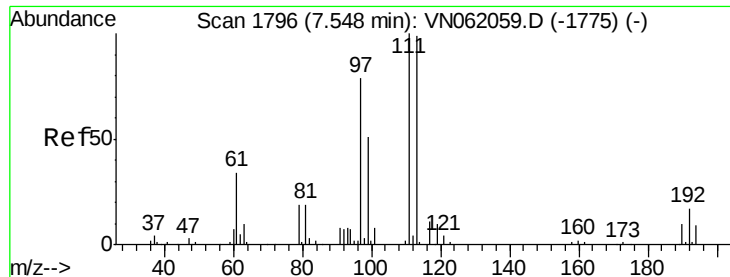
Tot Ion: 65 Resp: 147890
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062209.D
 Acq: 30 Jun 2020 00:57

Tgt Ion: 114 Resp: 378887
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.2
 88 15.8 0.0 30.8

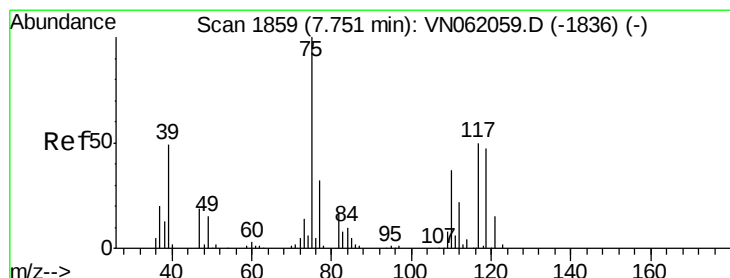
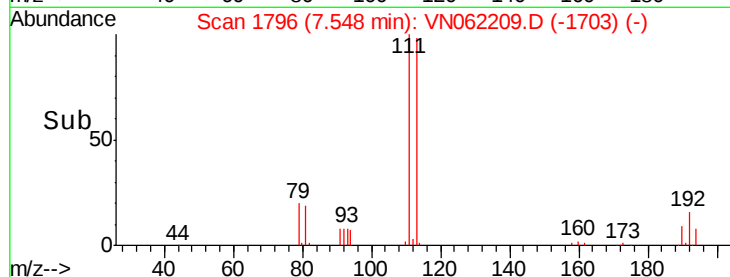
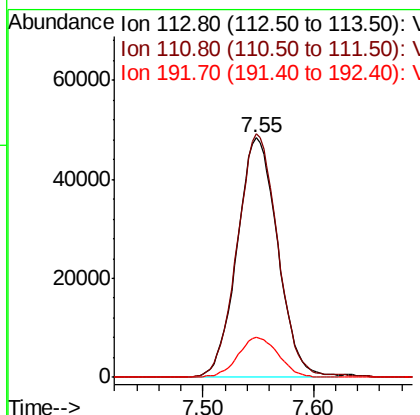
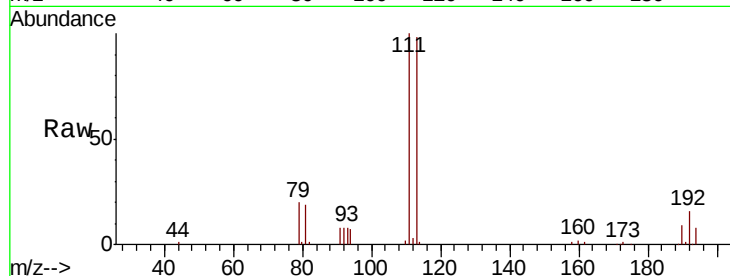




#35
 Dibromofluoromethane
 Concen: 50.749 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062209.D
 Acq: 30 Jun 2020 00:57

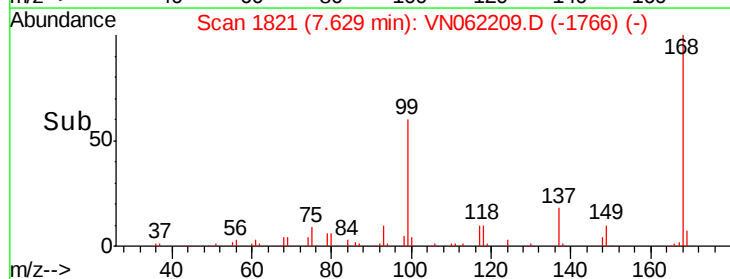
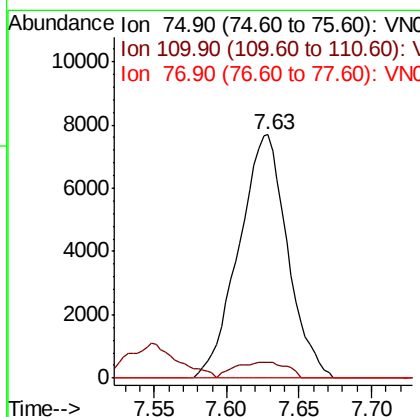
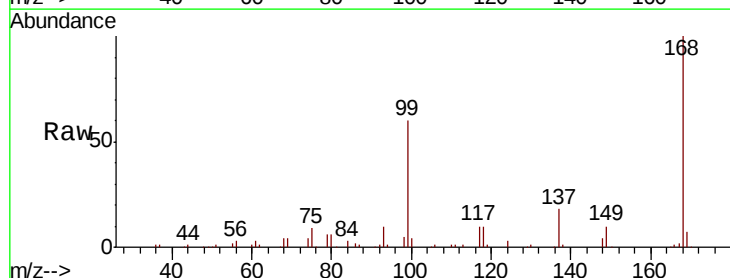
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129817TB

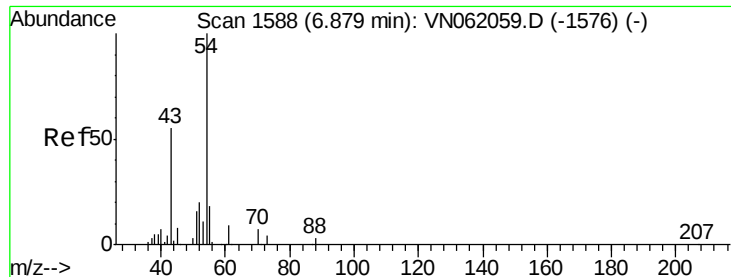
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	16.7	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.700 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062209.D
 Acq: 30 Jun 2020 00:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.0	17.9	53.8#
77	0.0	24.9	37.3#

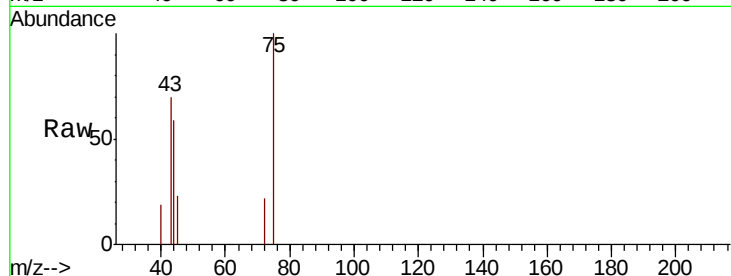




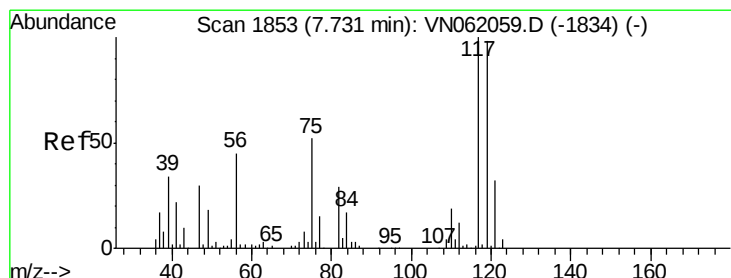
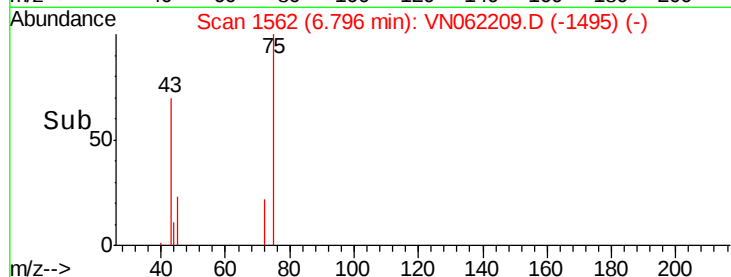
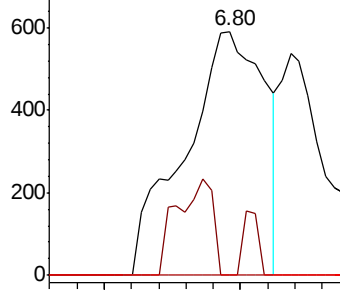
#37
Ethyl Acetate
Concen: 0.382 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.08 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Instrument :
MSVOA_N
ClientSampleId :
PB129817TB

Tot Ion: 43 Resp: 1206
Ion Ratio Lower Upper
43 100
61 4.9 12.0 18.0#
70 0.0 9.6 14.4#

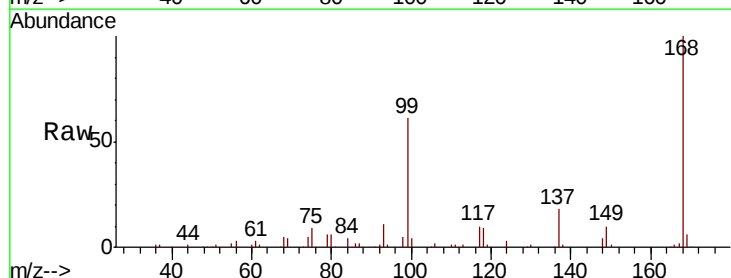


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

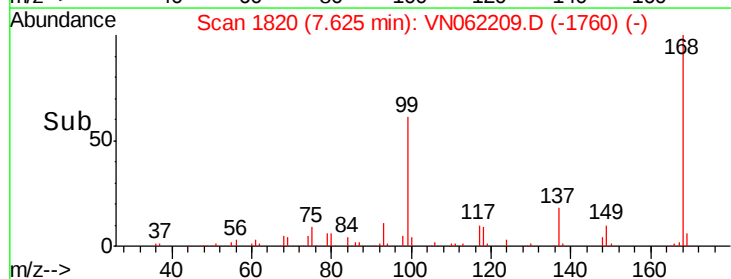
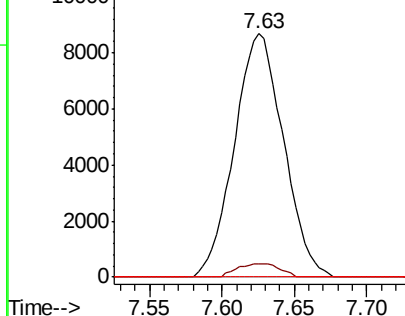


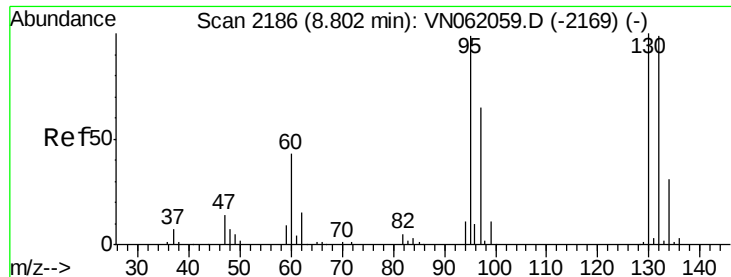
#38
Carbon Tetrachloride
Concen: 5.694 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Tgt Ion: 117 Resp: 20443
Ion Ratio Lower Upper
117 100
119 5.6 78.2 117.2#
121 0.0 25.8 38.6#



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





#44

Trichloroethene

Concen: 0.212 ug/l

RT: 8.81 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampleId :

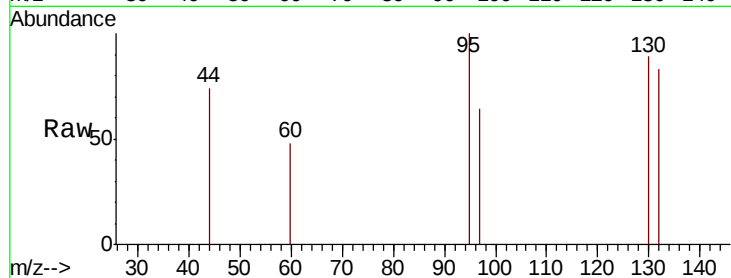
PB129817TB

Tot Ion:130 Resp: 620

Ion Ratio Lower Upper

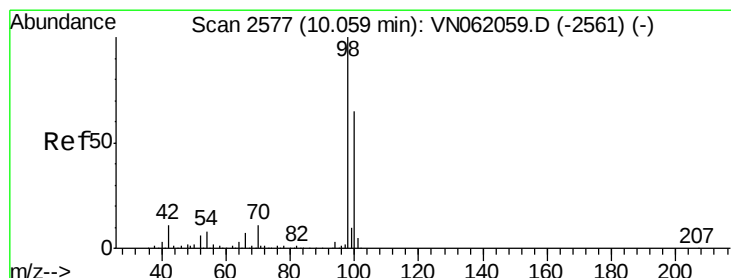
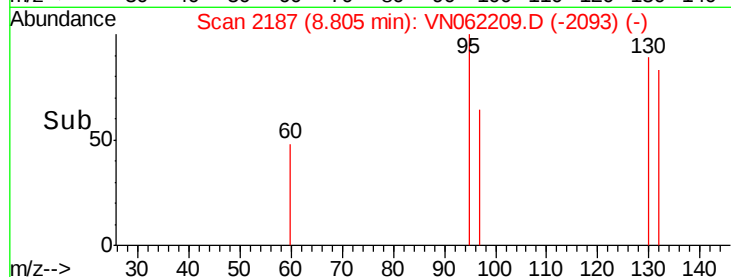
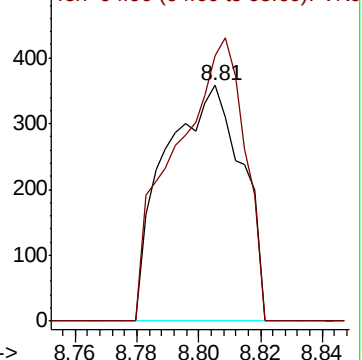
130 100

95 112.8 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 50.138 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062209.D

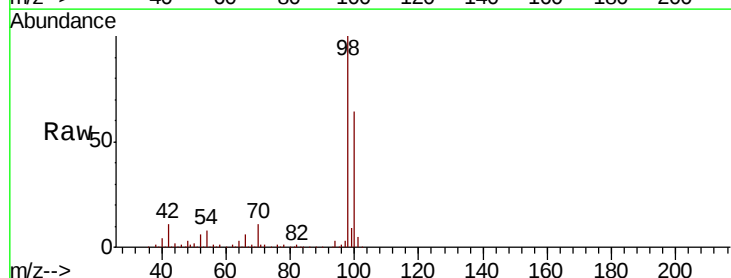
Acq: 30 Jun 2020 00:57

Tgt Ion: 98 Resp: 487170

Ion Ratio Lower Upper

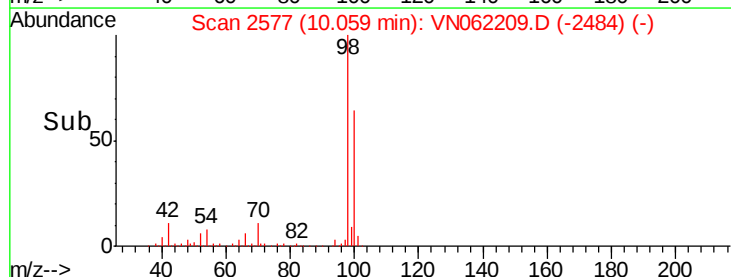
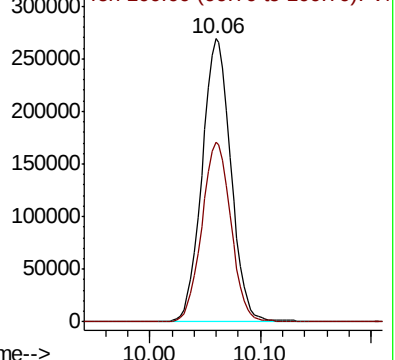
98 100

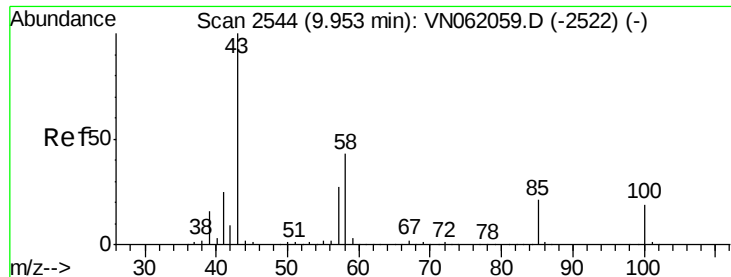
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.708 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampled :

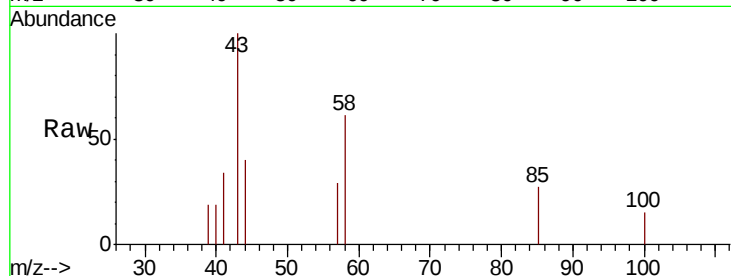
PB129817TB

Tot Ion: 43 Resp: 2126

Ion Ratio Lower Upper

43 100

58 48.3 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062209.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062209.D (-2522) (-)

9.95

1200

1000

800

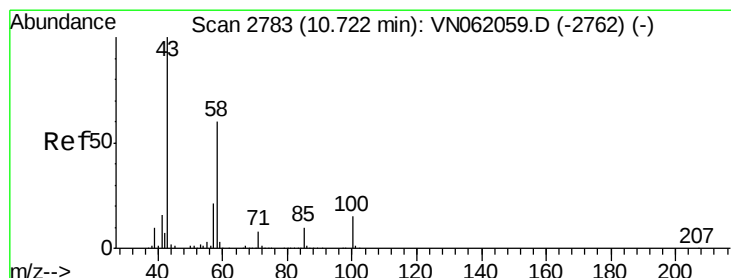
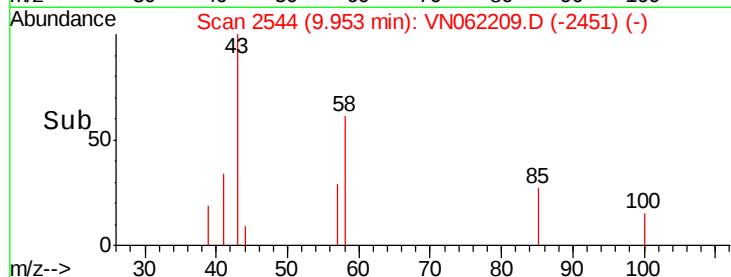
600

400

200

0

Time--> 9.90 9.95 10.00



#59

2-Hexanone

Concen: 0.273 ug/l

RT: 10.73 min Scan# 2786

Delta R.T. 0.01 min

Lab File: VN062209.D

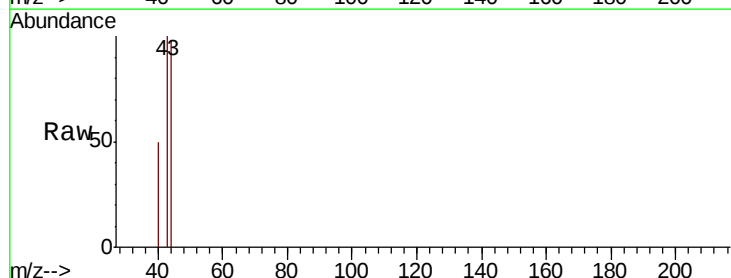
Acq: 30 Jun 2020 00:57

Tgt Ion: 43 Resp: 593

Ion Ratio Lower Upper

43 100

58 0.0 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN062209.D (-2762) (-)

Ion 58.00 (57.70 to 58.70): VN062209.D (-2762) (-)

10.73

400

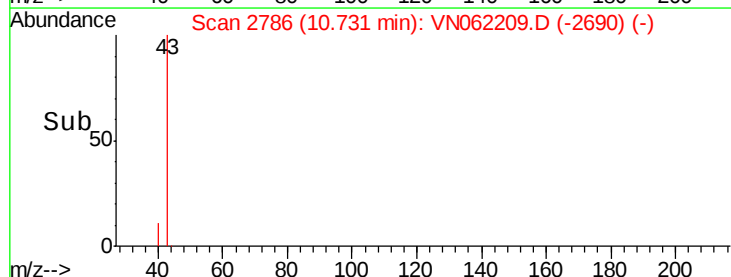
300

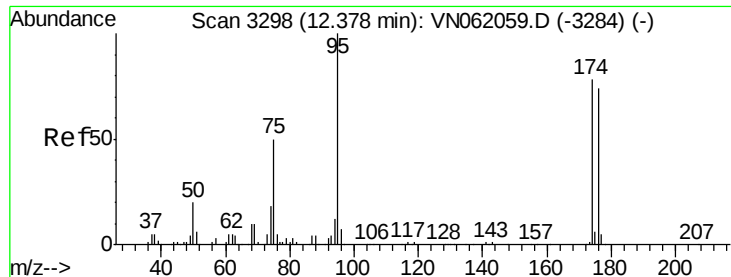
200

100

0

Time--> 10.70 10.75

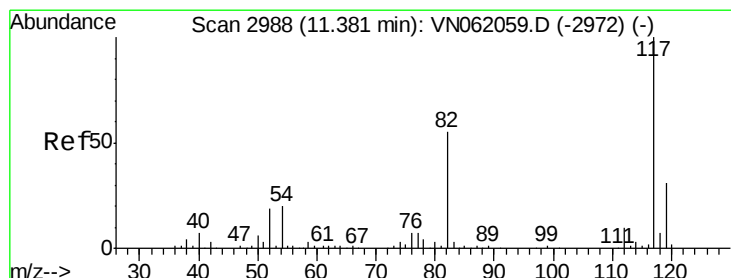
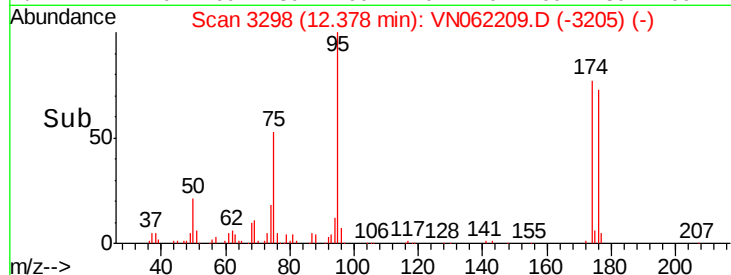
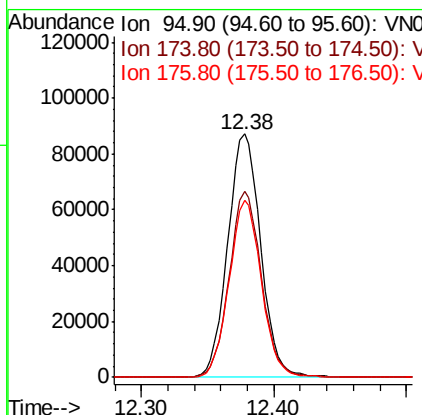
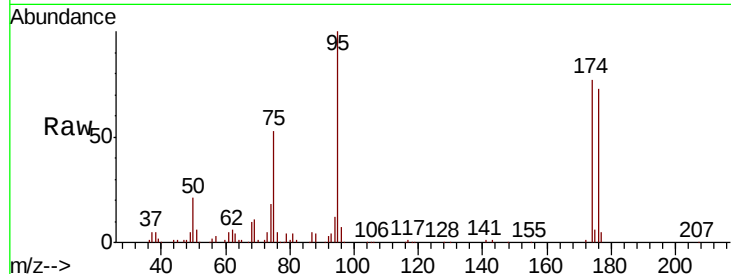




#62
4-Bromofluorobenzene
Concen: 45.817 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

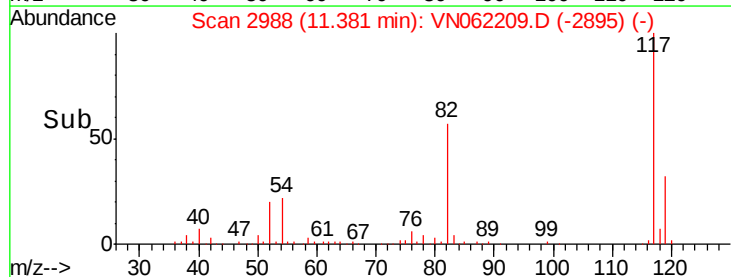
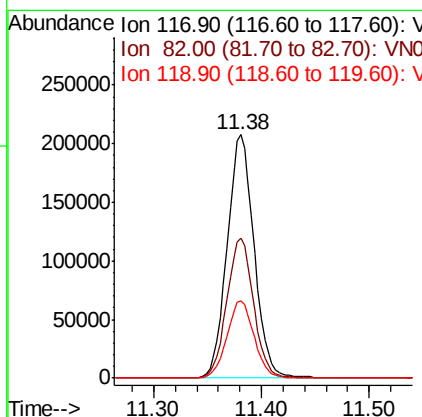
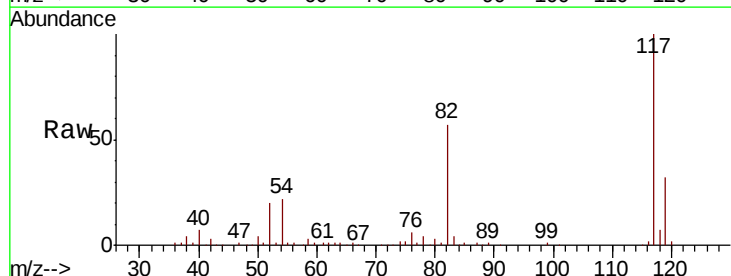
Instrument :
MSVOA_N
ClientSampleId :
PB129817TB

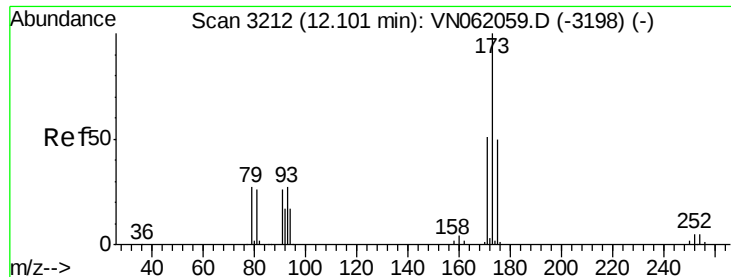
Tot Ion: 95 Resp: 150409
Ion Ratio Lower Upper
95 100
174 75.3 0.0 154.8
176 71.4 0.0 147.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Tgt Ion: 117 Resp: 361388
Ion Ratio Lower Upper
117 100
82 57.4 43.8 65.8
119 31.9 25.2 37.8





#71

Bromoform

Concen: 0.405 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampleId :

PB129817TB

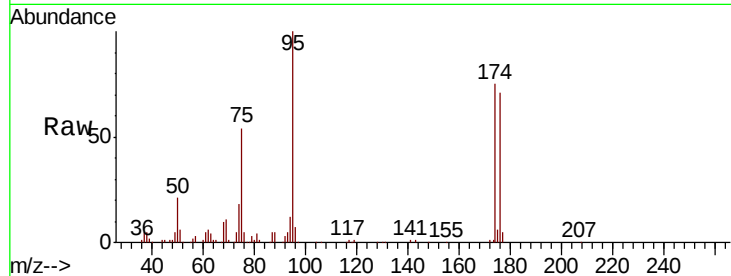
Tot Ion:173 Resp: 790

Ion Ratio Lower Upper

173 100

175 889.2 24.7 74.1#

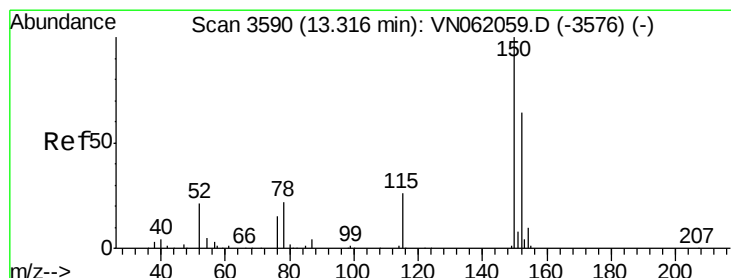
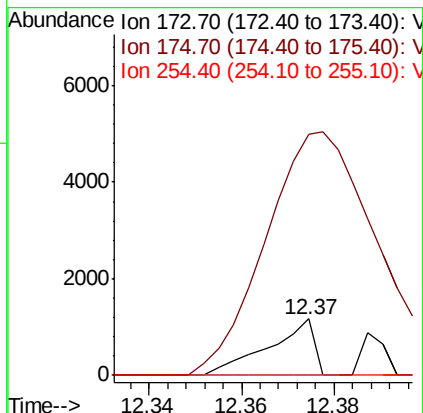
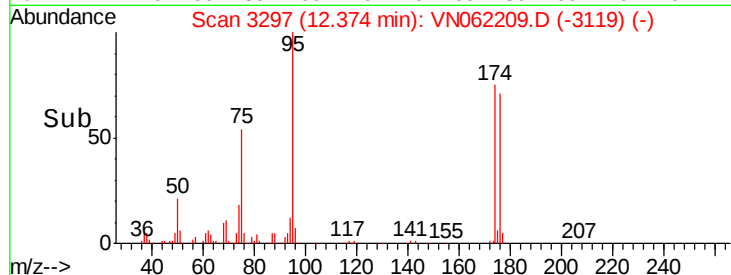
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

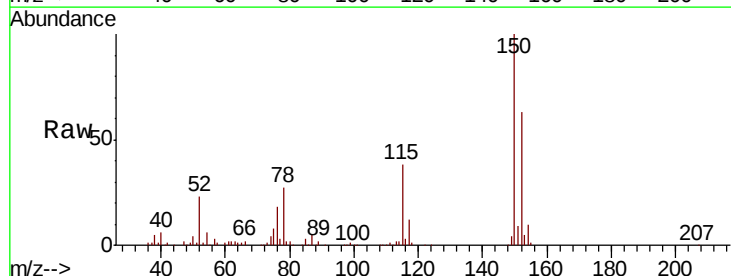
Tgt Ion:152 Resp: 126377

Ion Ratio Lower Upper

152 100

115 60.2 29.5 88.5

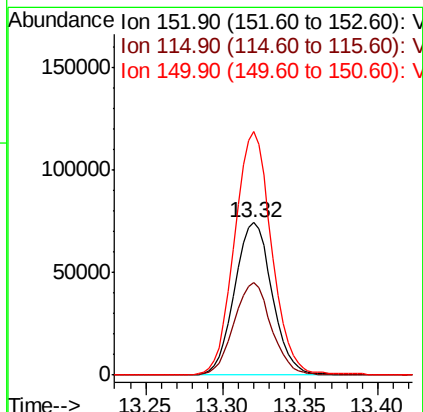
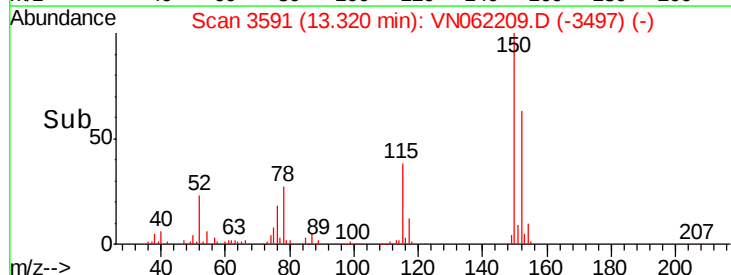
150 157.9 0.0 351.4

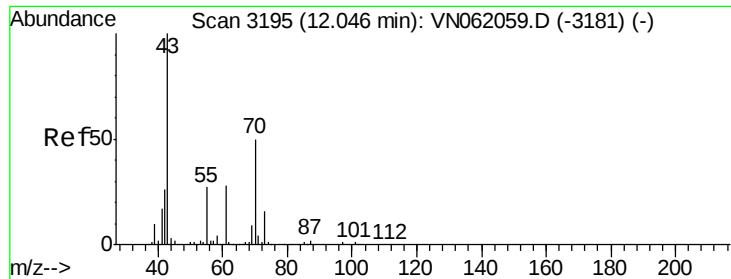


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

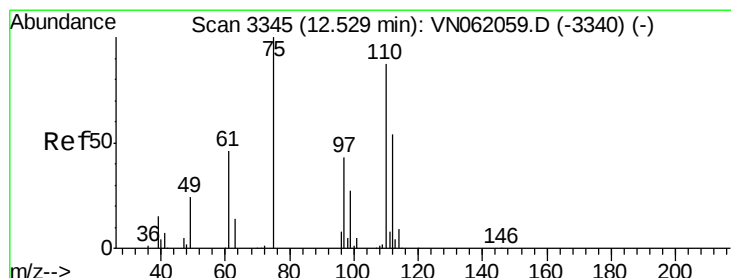
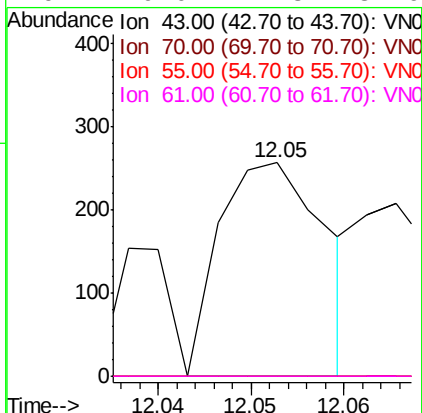
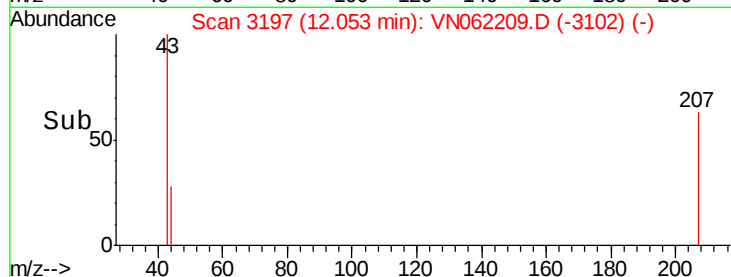
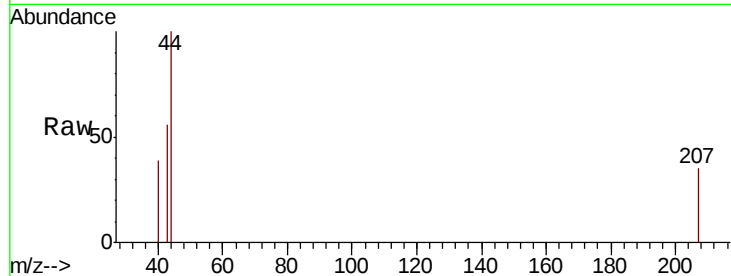




#74
N-amvl acetate
Concen: 3.396 ug/l
RT: 12.05 min Scan# 3197
Delta R.T. 0.01 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

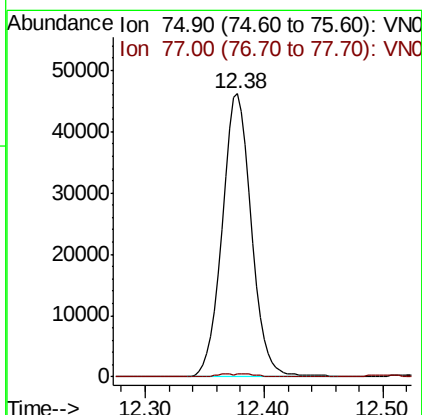
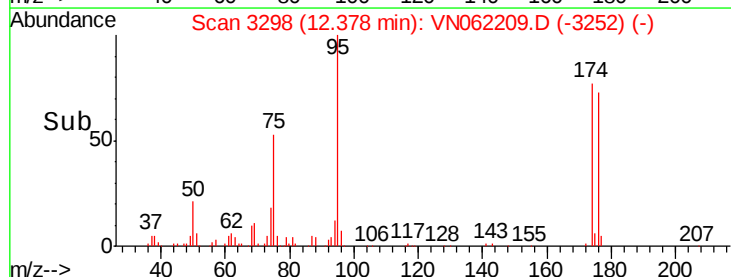
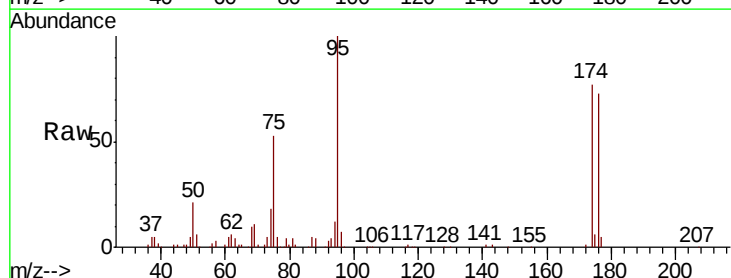
Instrument :
MSVOA_N
ClientSampleId :
PB129817TB

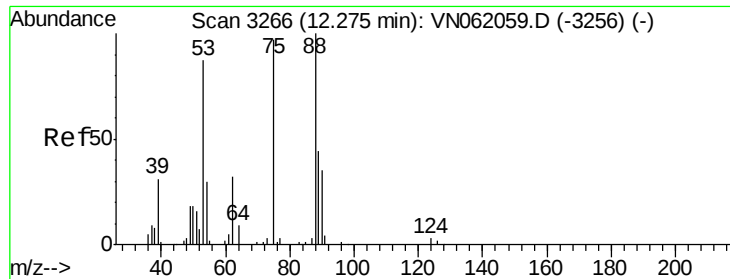
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
70 0.0 39.4 59.2#
55 0.0 21.7 32.5#
61 0.0 21.3 31.9#



#76
1,2,3-Trichloropropane
Concen: 26.411 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Tgt Ion: 75 Resp: 78572
Ion Ratio Lower Upper
75 100
77 0.5 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 77.129 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

Instrument :

MSVOA_N

ClientSampled :

PB129817TB

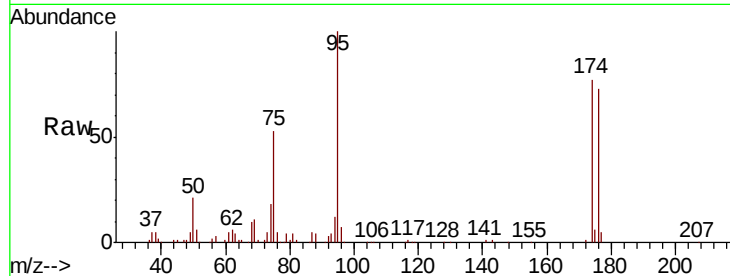
Tot Ion: 75 Resp: 78572

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

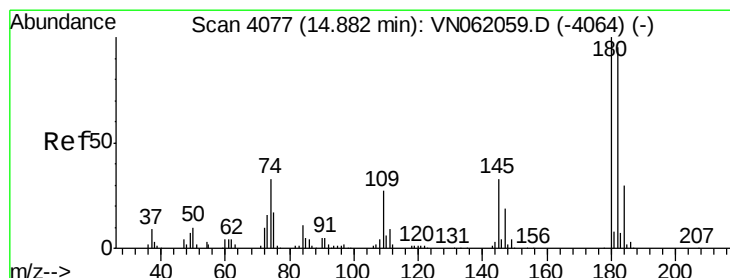
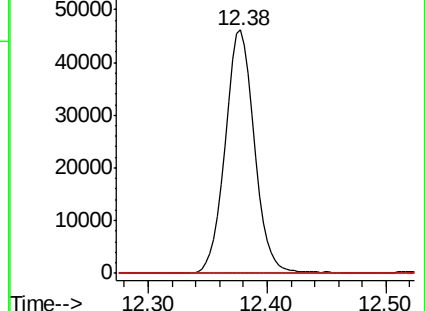
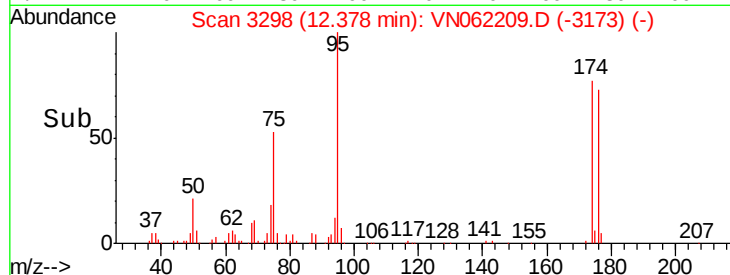
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062209.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062209.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062209.D (-3173) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.436 ug/l

RT: 14.89 min Scan# 4079

Delta R.T. 0.01 min

Lab File: VN062209.D

Acq: 30 Jun 2020 00:57

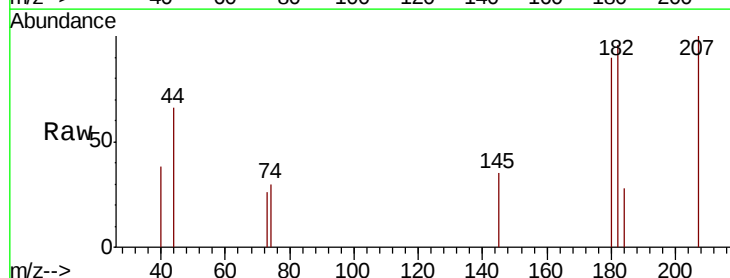
Tgt Ion: 180 Resp: 787

Ion Ratio Lower Upper

180 100

182 104.6 48.0 144.2

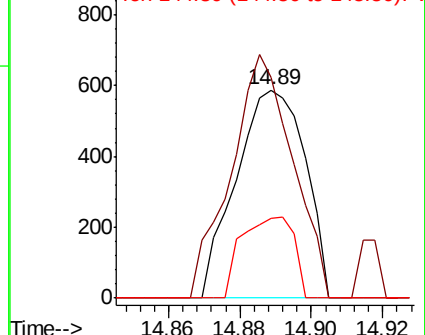
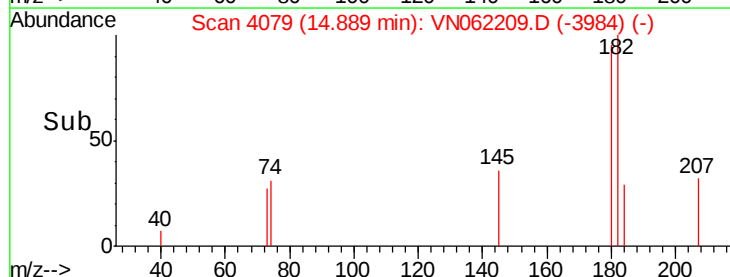
145 29.4 16.0 48.0

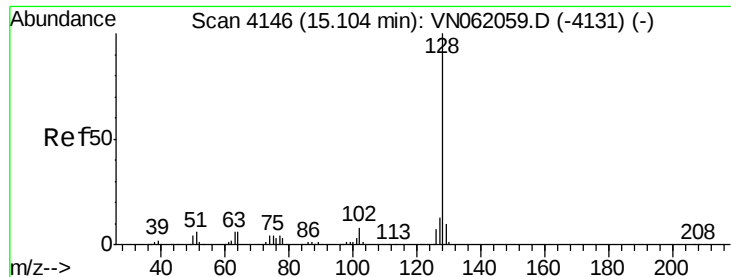


Abundance Ion 179.80 (179.50 to 180.50): VN062209.D (-3984) (-)

Ion 181.80 (181.50 to 182.50): VN062209.D (-3984) (-)

Ion 144.80 (144.50 to 145.50): VN062209.D (-3984) (-)

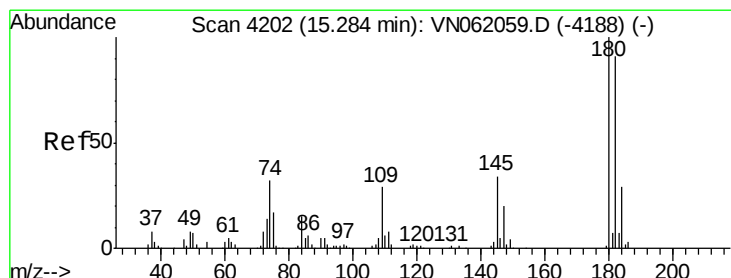
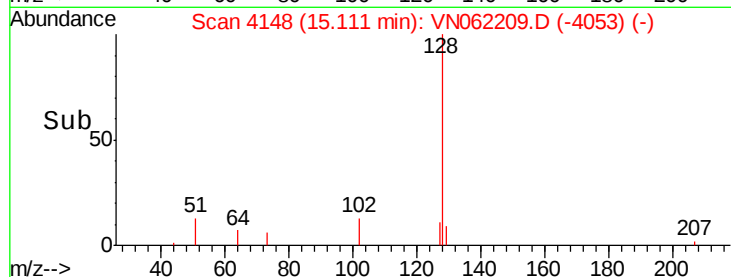
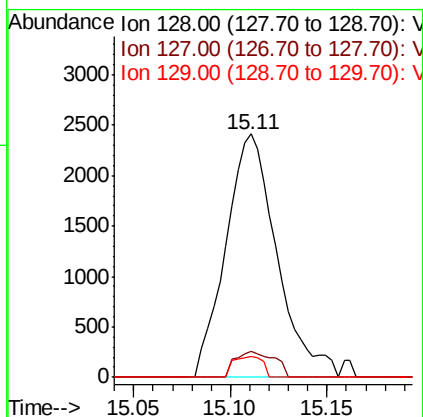
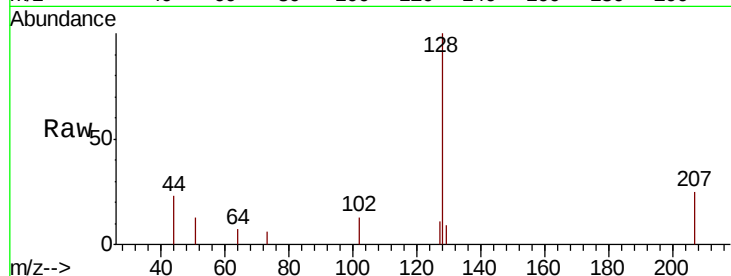




#95
Naphthalene
Concen: 4.670 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Instrument :
MSVOA_N
ClientSampled :
PB129817TB

Tot Ion:128 Resp: 4418
Ion Ratio Lower Upper
128 100
127 8.1 10.5 15.7#
129 4.8 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.617 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. 0.01 min
Lab File: VN062209.D
Acq: 30 Jun 2020 00:57

Tgt Ion:180 Resp: 1139
Ion Ratio Lower Upper
180 100
182 94.8 46.8 140.4
145 25.2 16.4 49.2

