

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063517.D
 Acq On : 22 Sep 2020 4:53
 Operator : JC/MD
 Sample : L4082-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D1-20200915

Quant Time: Sep 22 06:03:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	229460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	430085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	428450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177778	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	187003	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	7.55	113	137646	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	10.06	98	547890	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	12.38	95	214935	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	

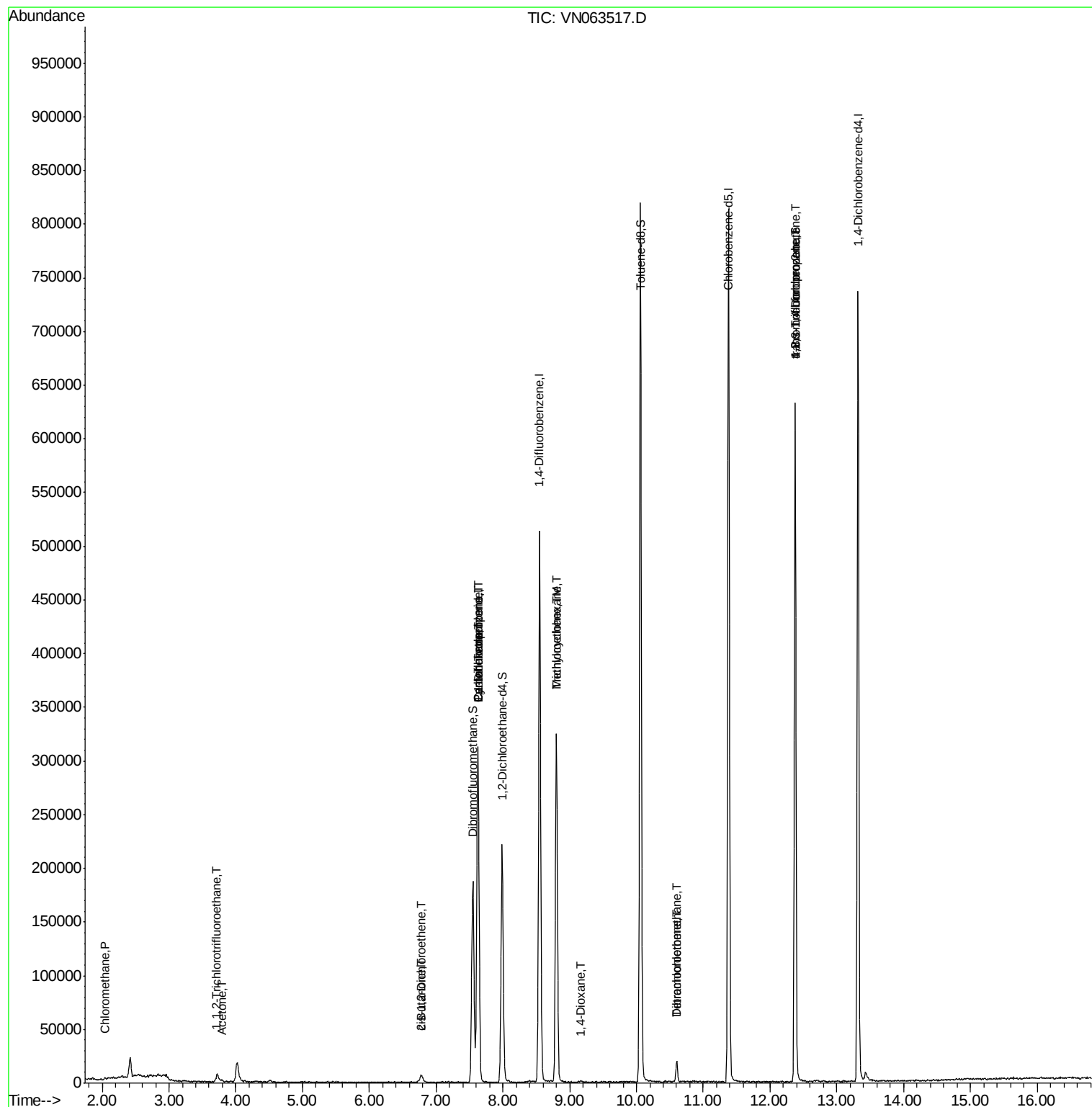
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	868	0.252	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	4381	1.714	ug/l	94
16) Acetone	3.78	43	3542	2.822	ug/l #	86
25) 2-Butanone	6.79	43	507	0.263	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	726	0.224	ug/l	79
31) Cyclohexane	7.62	56	6308	1.169	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	21747	4.746	ug/l #	44
38) Carbon Tetrachloride	7.62	117	26104	5.581	ug/l #	18
39) Methylcyclohexane	8.80	83	1680	0.338	ug/l #	1
44) Trichloroethene	8.80	130	109131	34.400	ug/l	99
49) 1,4-Dioxane	9.16	88	762	13.441	ug/l #	84
60) Dibromochloromethane	10.60	129	4367	1.238	ug/l #	10
64) Tetrachloroethene	10.60	164	3759	1.288	ug/l	91
76) 1,2,3-Trichloropropane	12.38	75	119347	27.123	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119347	74.360	ug/l #	7

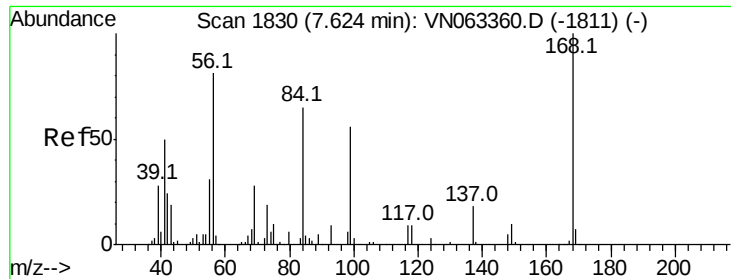
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

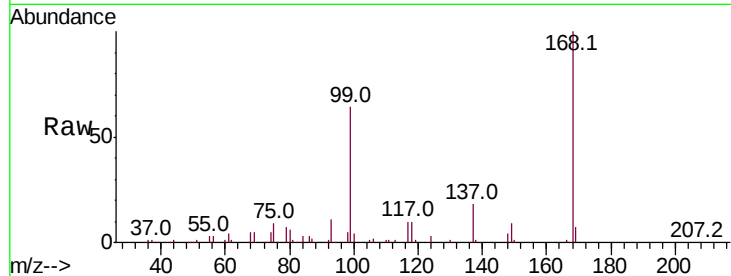
RE108D1-20200915

Tot Ion:168 Resp: 229460

Ion Ratio Lower Upper

168 100

99 63.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

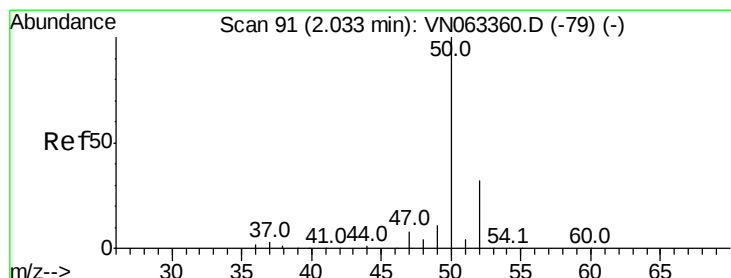
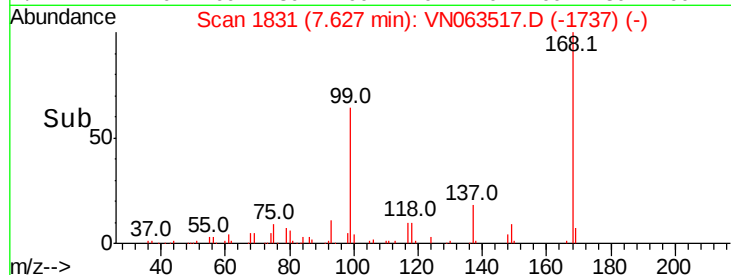
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.252 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063517.D

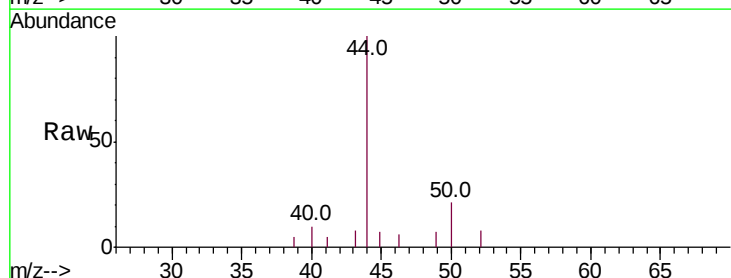
Acq: 22 Sep 2020 4:53

Tgt Ion: 50 Resp: 868

Ion Ratio Lower Upper

50 100

52 37.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

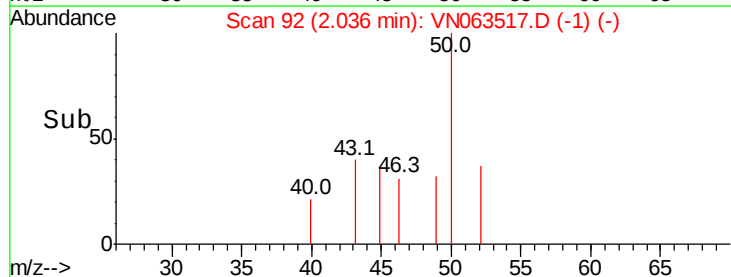
600

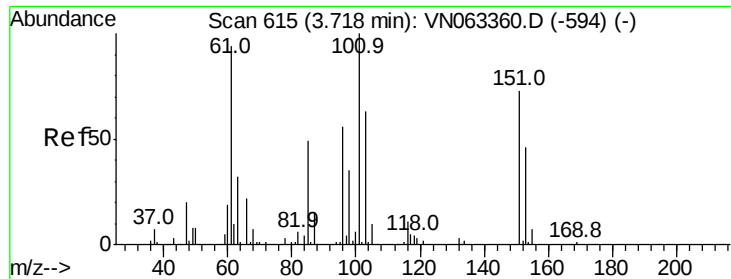
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.714 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

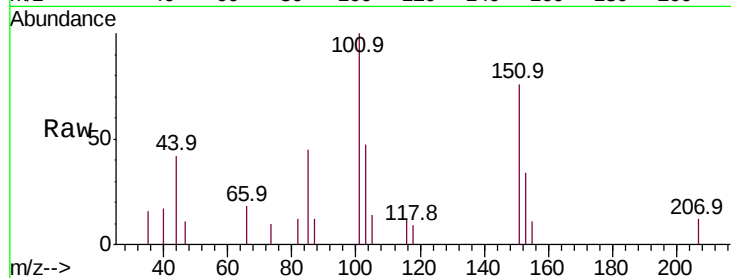
Tot Ion:101 Resp: 4381

Ion Ratio Lower Upper

101 100

85 47.3 37.7 56.5

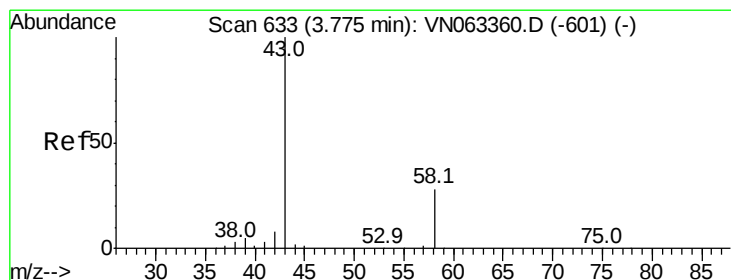
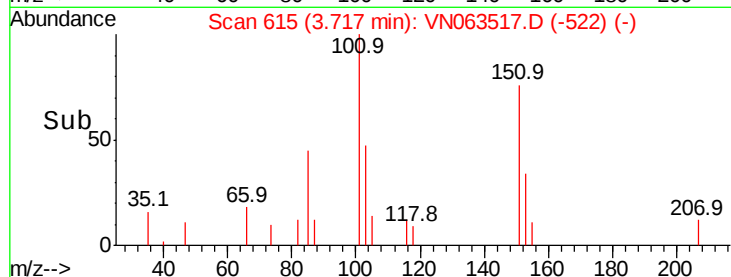
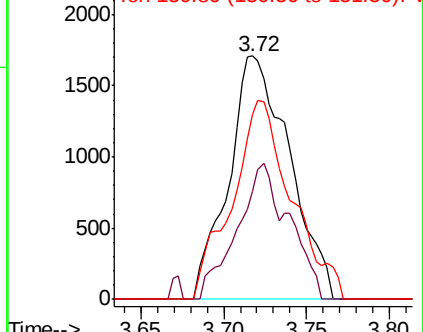
151 79.8 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#16

Acetone

Concen: 2.822 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063517.D

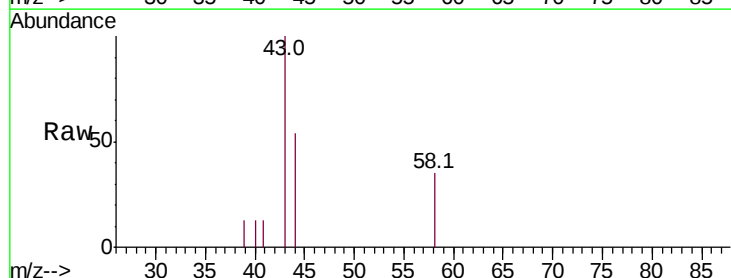
Acq: 22 Sep 2020 4:53

Tgt Ion: 43 Resp: 3542

Ion Ratio Lower Upper

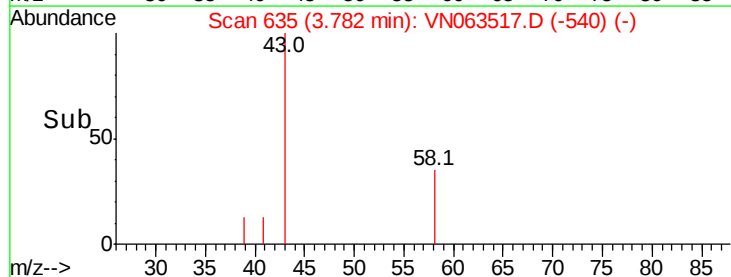
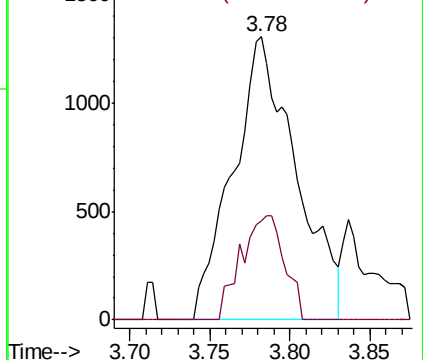
43 100

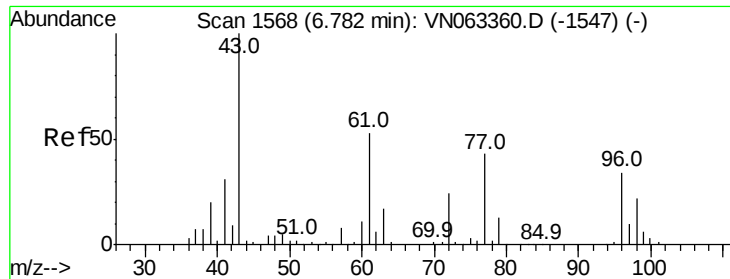
58 35.2 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

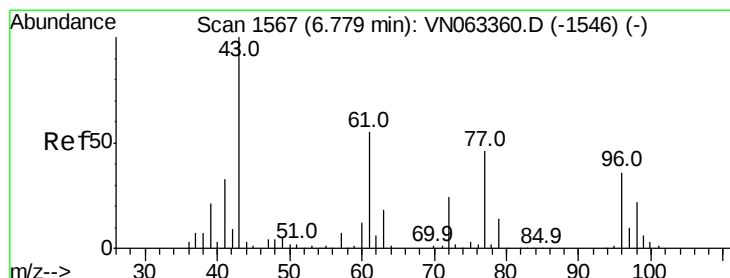
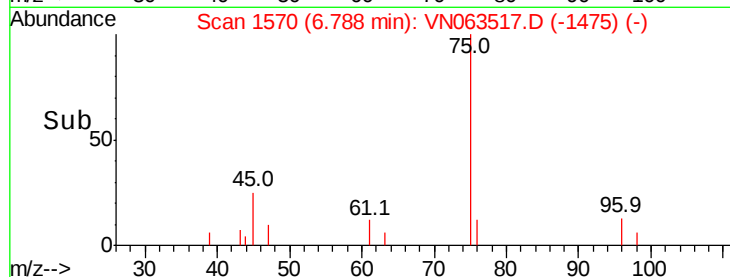
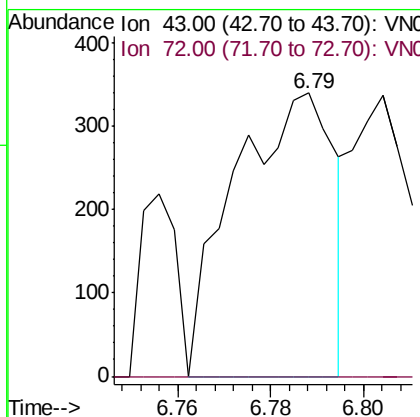
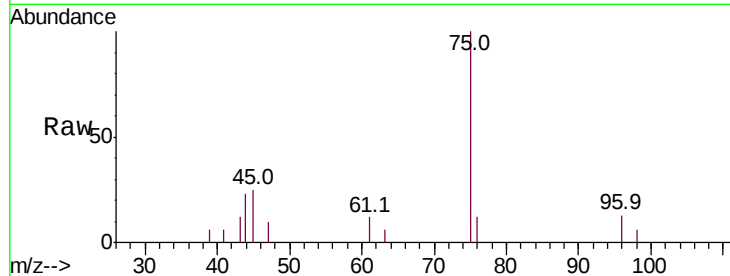




#25
2-Butanone
Concen: 0.263 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

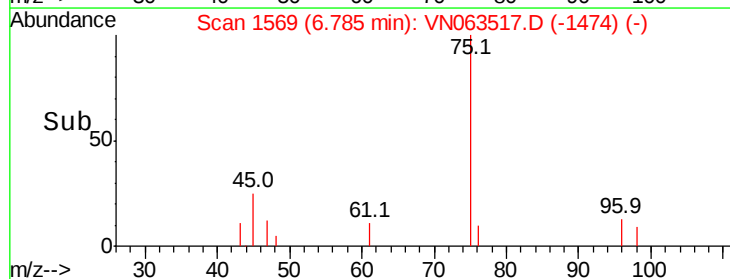
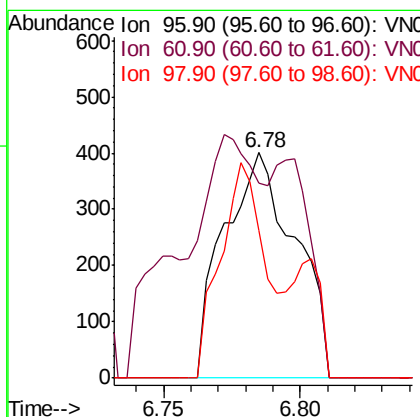
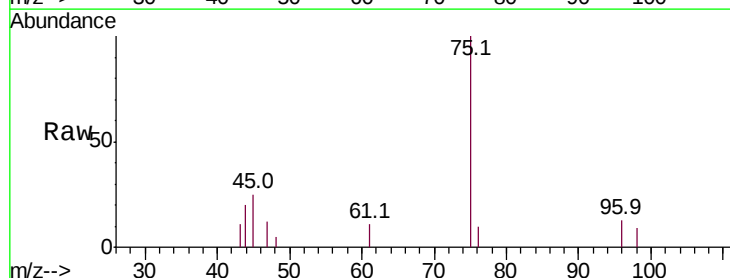
Instrument :
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RE108D1-20200915

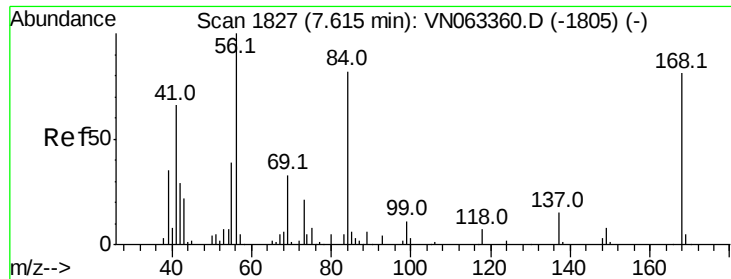
Tot Ion: 43 Resp: 507
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#27
cis-1,2-Dichloroethene
Concen: 0.224 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

Tgt Ion: 96 Resp: 726
Ion Ratio Lower Upper
96 100
61 124.0 0.0 319.6
98 58.7 0.0 127.8

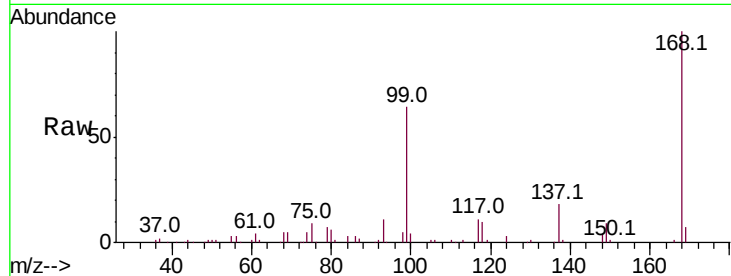




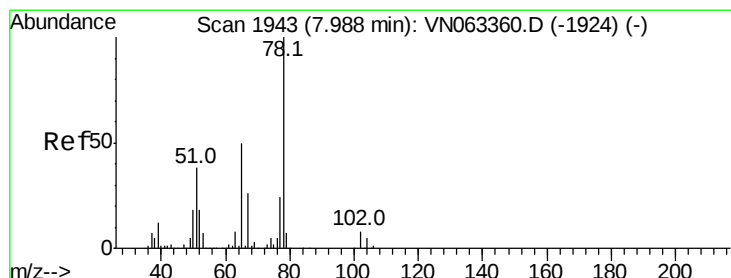
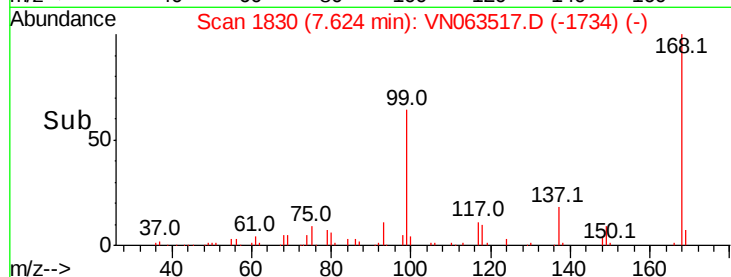
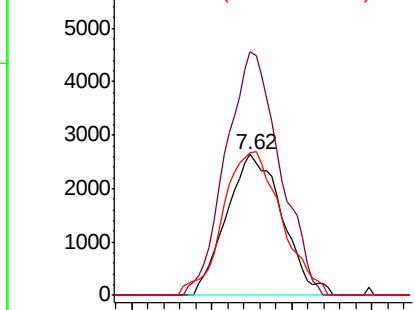
#31
Cyclohexane
Concen: 1.169 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

Instrument :
MSVOA_N
ClientSampleId :
RE108D1-20200915

Tot Ion: 56 Resp: 6308
Ion Ratio Lower Upper
56 100
69 173.1 26.1 39.1#
84 101.3 65.4 98.2#

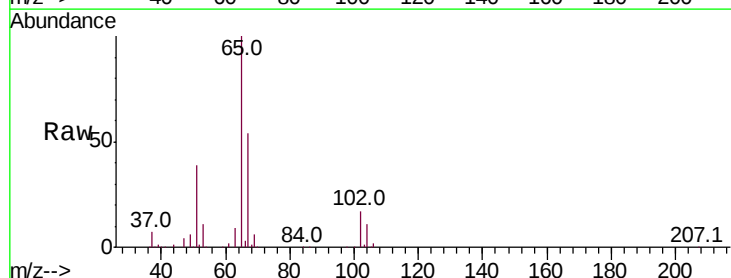


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

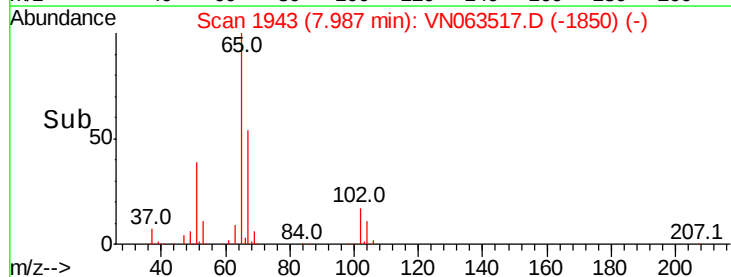
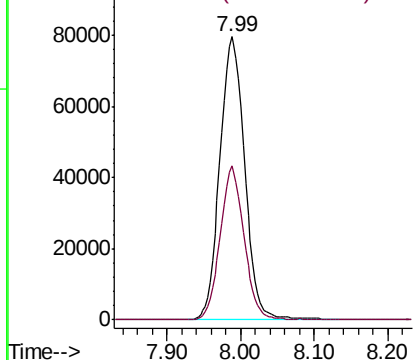


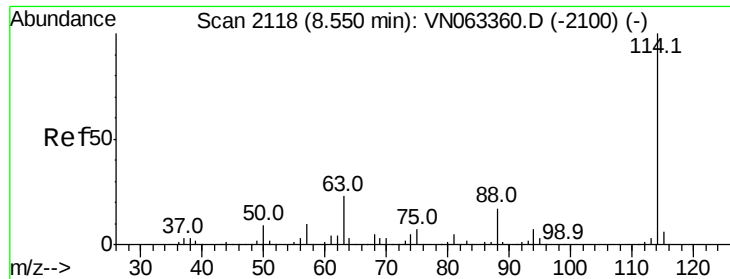
#33
1,2-Dichloroethane-d4
Concen: 47.876 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

Tgt Ion: 65 Resp: 187003
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

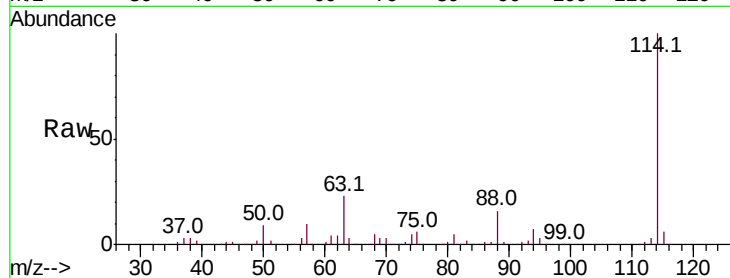




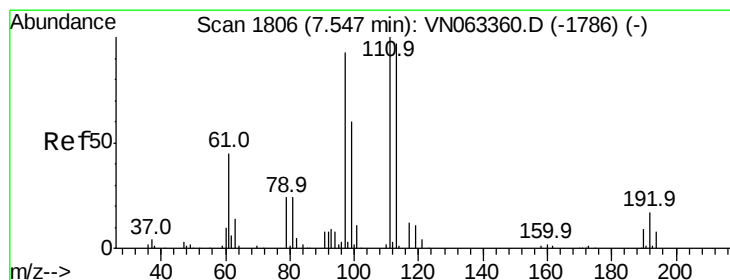
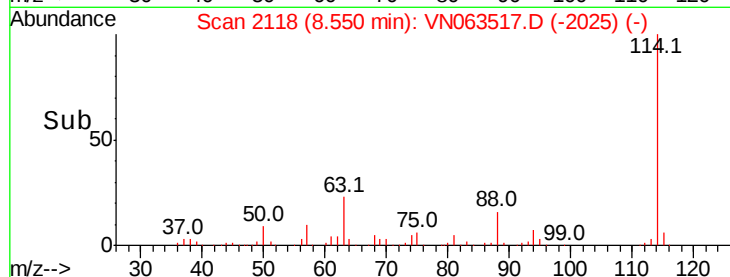
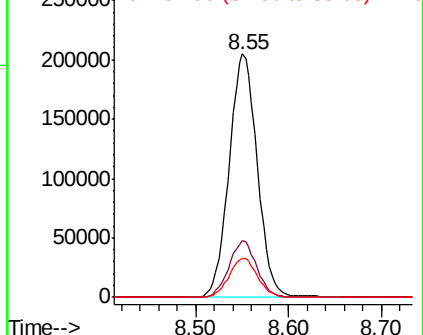
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063517.D
 Acq: 22 Sep 2020 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D1-20200915

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	46.4
88	16.0	0.0	33.2

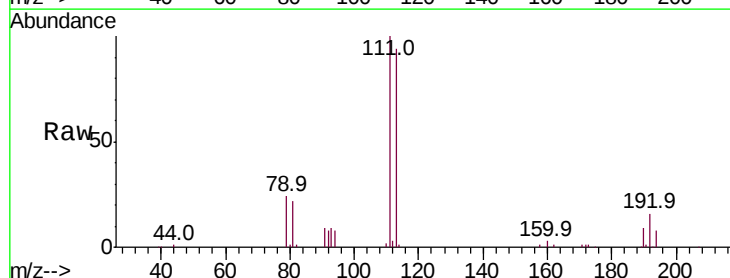


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

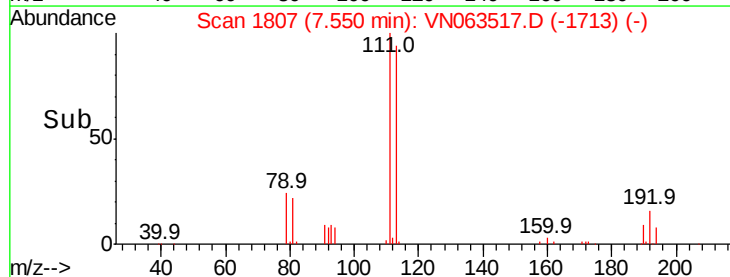
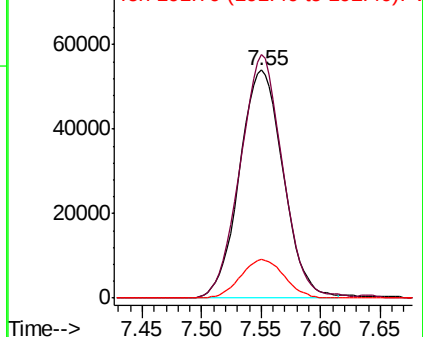


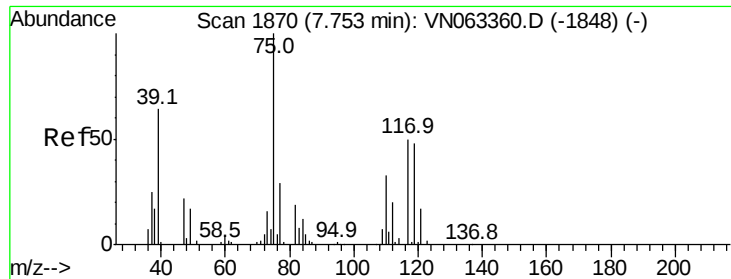
#35
 Dibromofluoromethane
 Concen: 46.230 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063517.D
 Acq: 22 Sep 2020 4:53

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.9	124.3
192	16.8	13.9	20.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.746 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

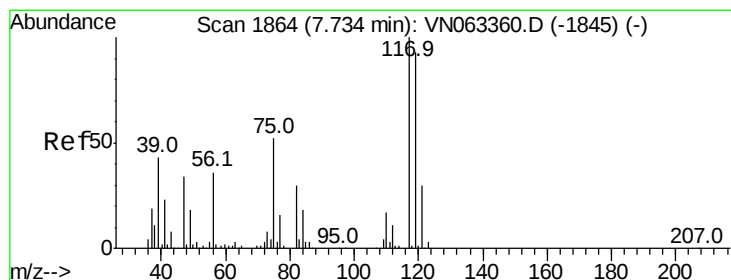
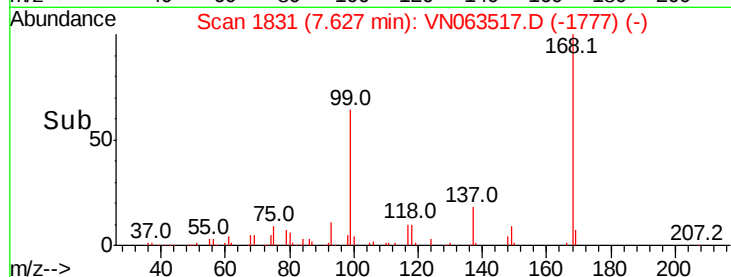
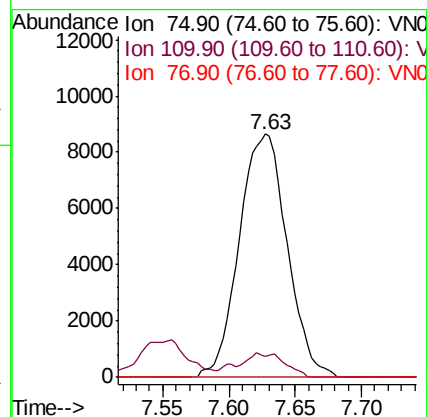
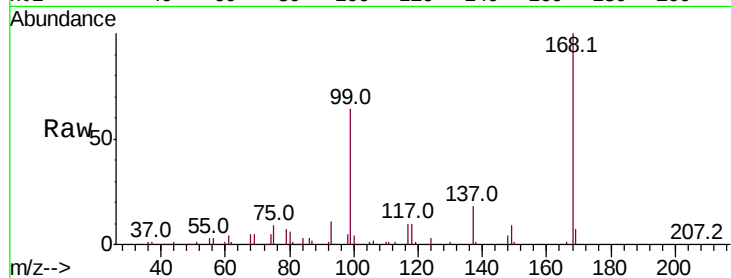
Tot Ion: 75 Resp: 21747

Ion Ratio Lower Upper

75 100

110 1.7 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.581 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

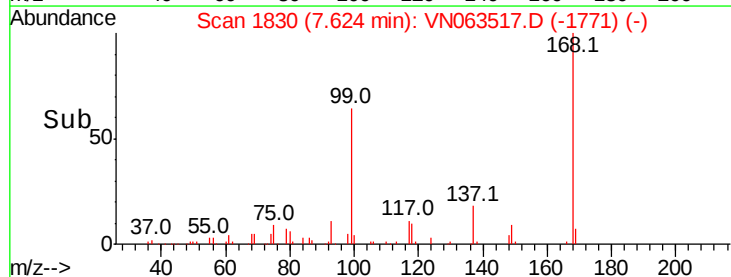
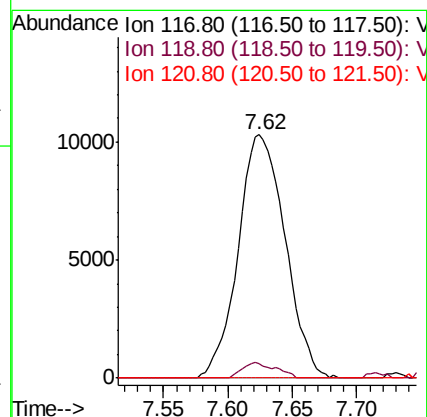
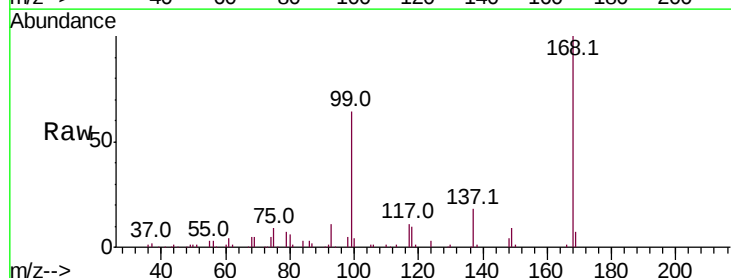
Tgt Ion: 117 Resp: 26104

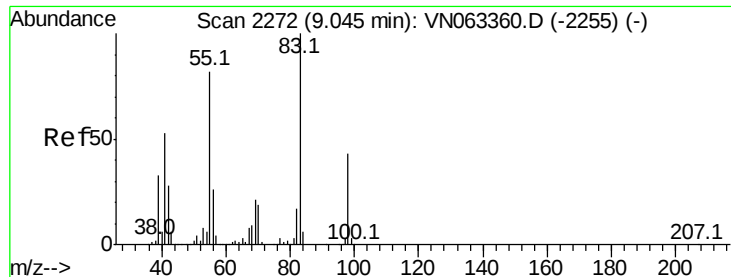
Ion Ratio Lower Upper

117 100

119 6.1 74.5 111.7#

121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 0.338 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

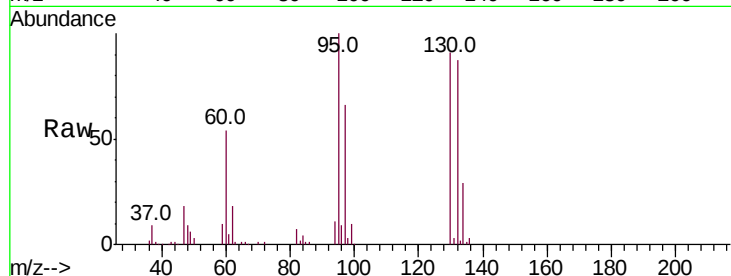
Tot Ion: 83 Resp: 1680

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

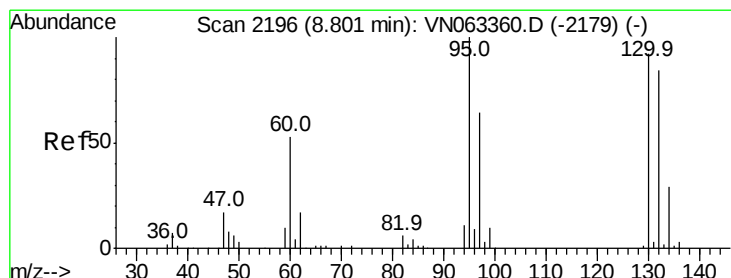
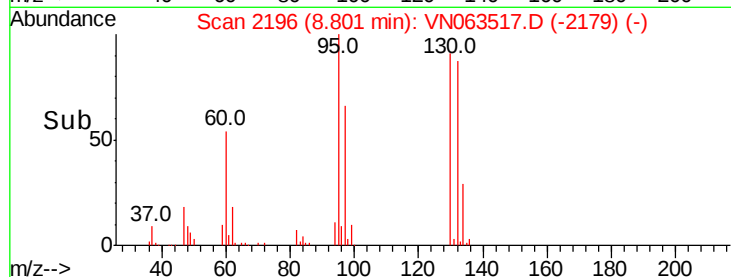
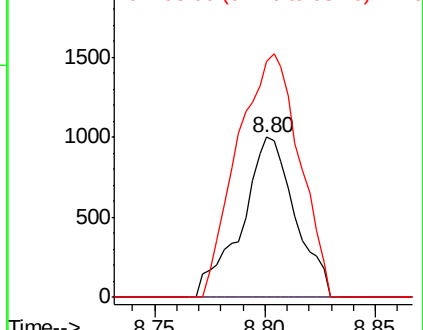
98 147.0 34.2 51.4#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#44

Trichloroethene

Concen: 34.400 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063517.D

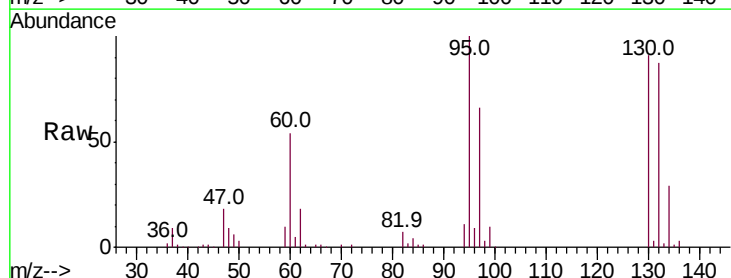
Acq: 22 Sep 2020 4:53

Tgt Ion:130 Resp: 109131

Ion Ratio Lower Upper

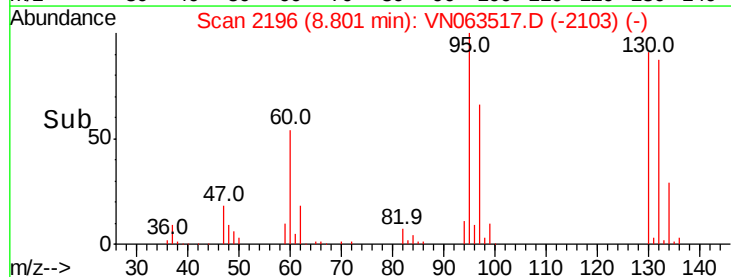
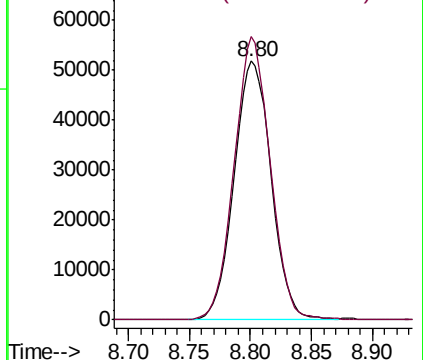
130 100

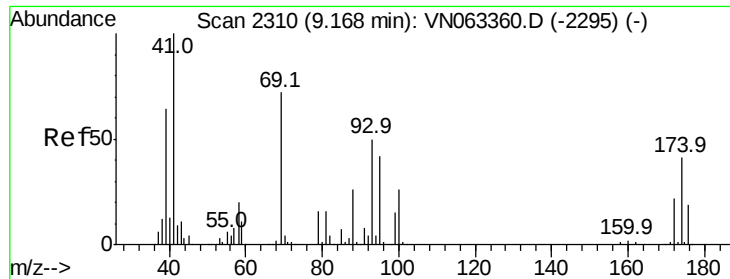
95 109.3 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#49

1,4-Dioxane

Concen: 13.441 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

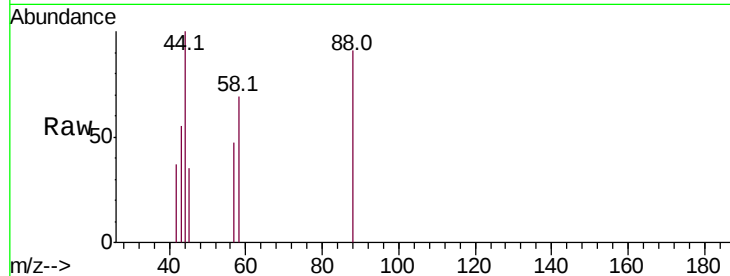
Tot Ion: 88 Resp: 762

Ion Ratio Lower Upper

88 100

43 17.6 32.6 49.0#

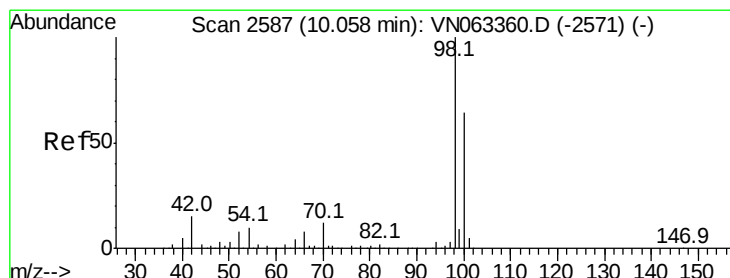
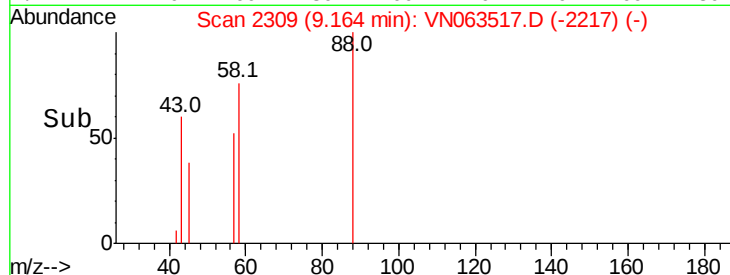
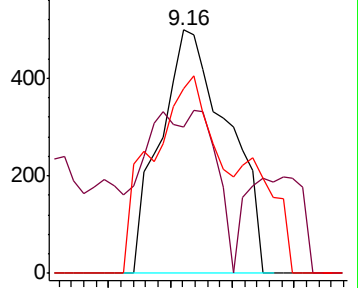
58 78.6 60.0 90.0



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.938 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063517.D

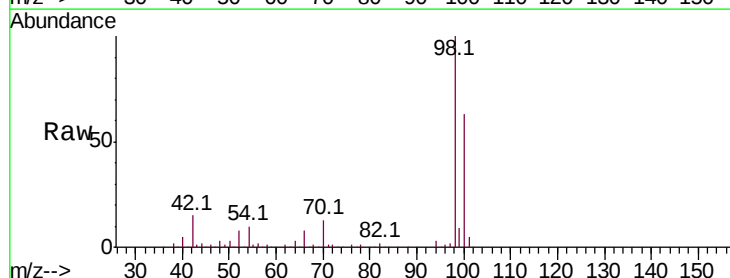
Acq: 22 Sep 2020 4:53

Tgt Ion: 98 Resp: 547890

Ion Ratio Lower Upper

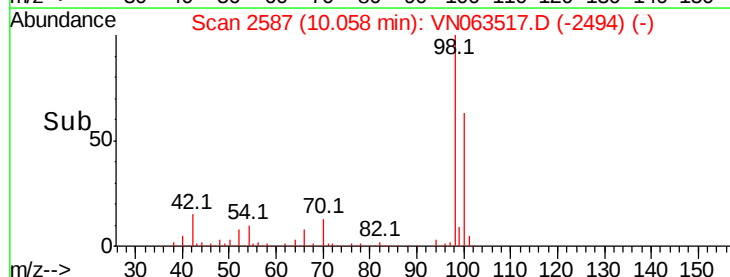
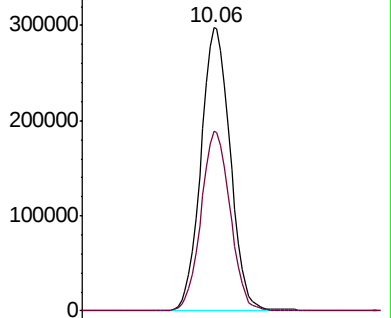
98 100

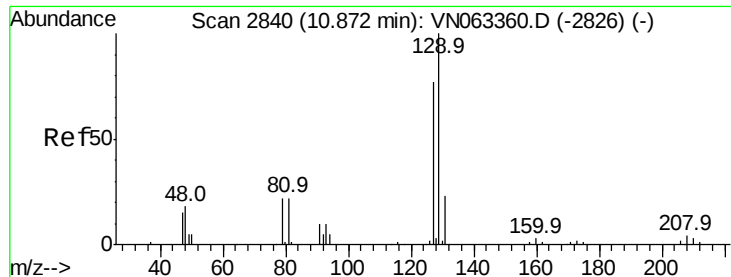
100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#60

Dibromochloromethane

Concen: 1.238 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

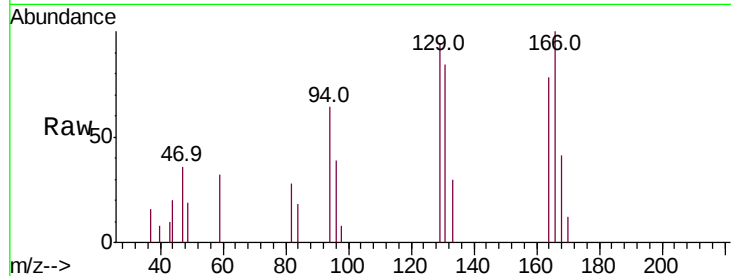
RE108D1-20200915

Tot Ion:129 Resp: 4367

Ion Ratio Lower Upper

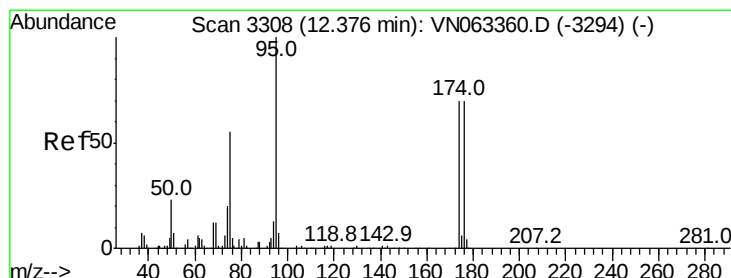
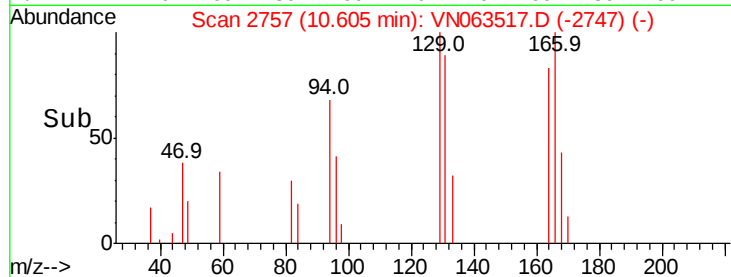
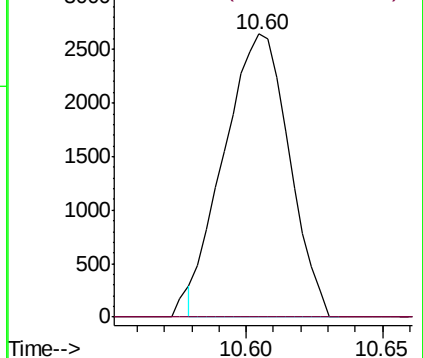
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 52.371 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

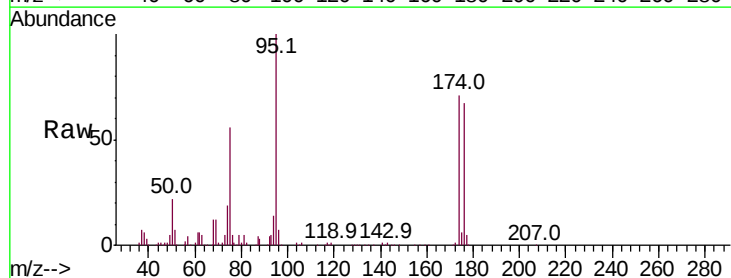
Tgt Ion: 95 Resp: 214935

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.8

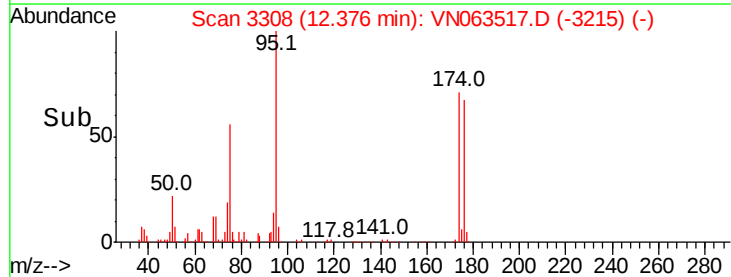
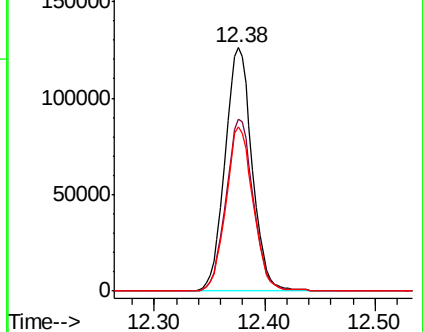
176 67.7 0.0 137.6

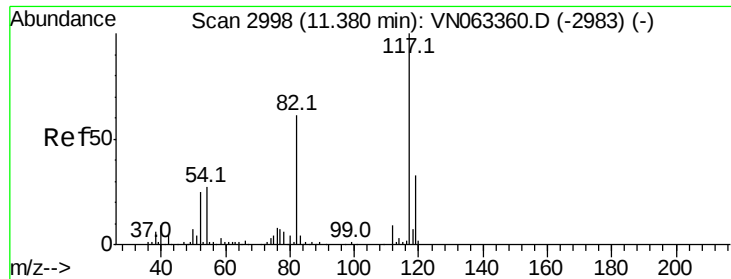


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

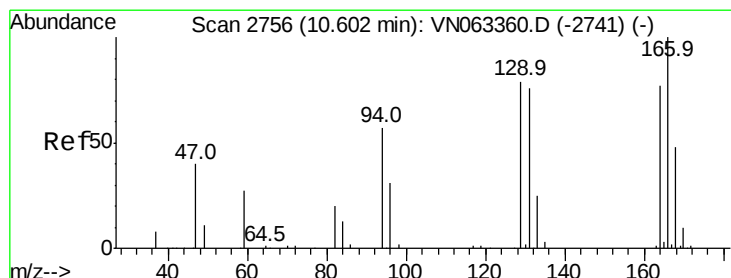
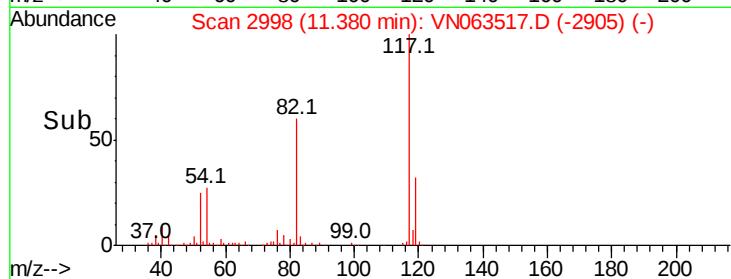
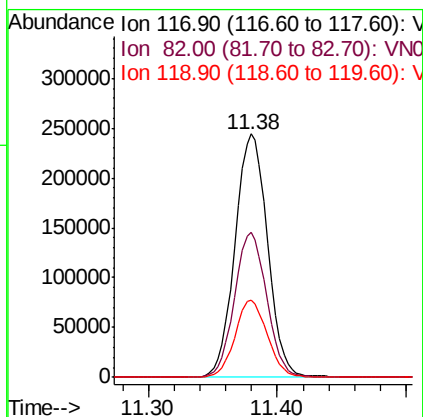
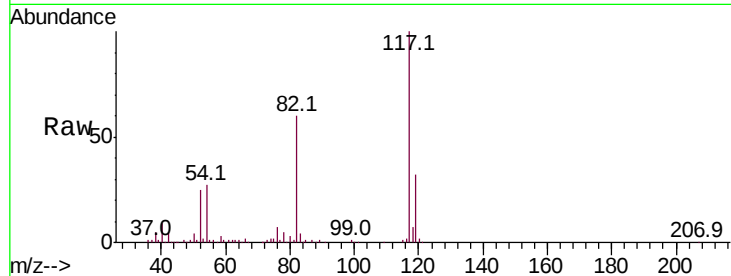




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

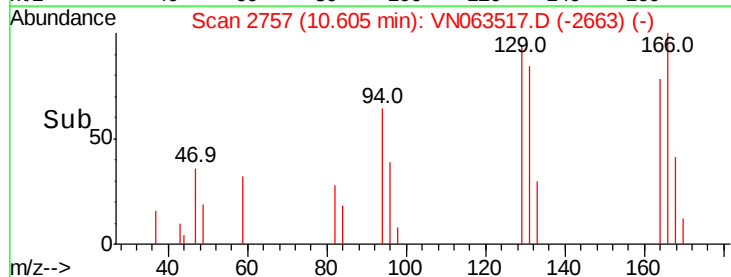
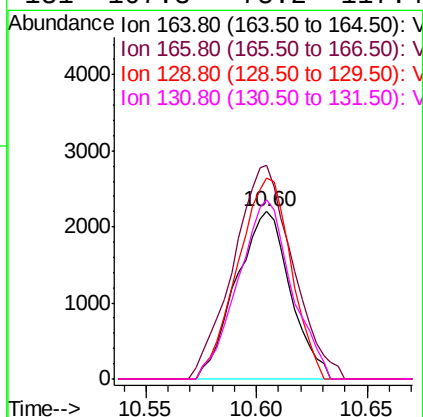
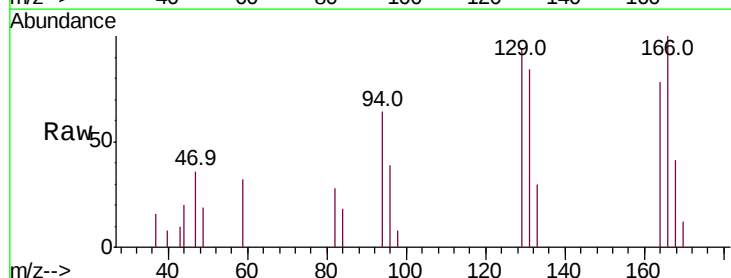
Instrument :
MSVOA_N
ClientSampleId :
RE108D1-20200915

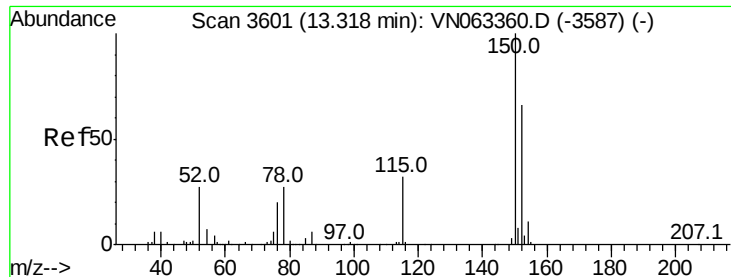
Tot Ion:117 Resp: 428450
Ion Ratio Lower Upper
117 100
82 59.7 49.2 73.8
119 31.9 26.2 39.4



#64
Tetrachloroethene
Concen: 1.288 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063517.D
Acq: 22 Sep 2020 4:53

Tgt Ion:164 Resp: 3759
Ion Ratio Lower Upper
164 100
166 127.6 103.4 155.0
129 120.2 81.8 122.6
131 107.3 78.2 117.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

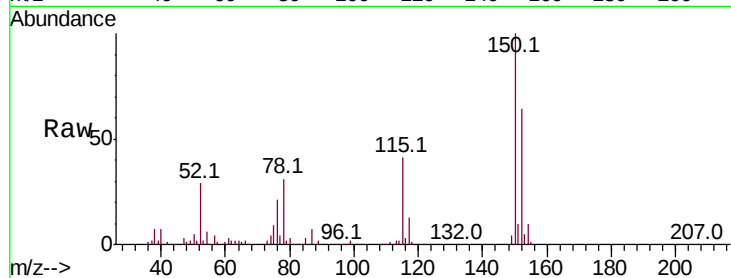
Tot Ion:152 Resp: 177778

Ion Ratio Lower Upper

152 100

115 63.7 32.2 96.6

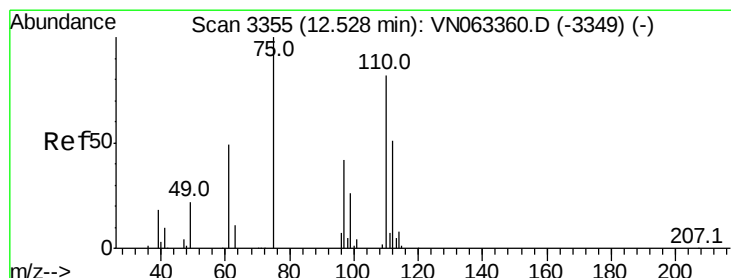
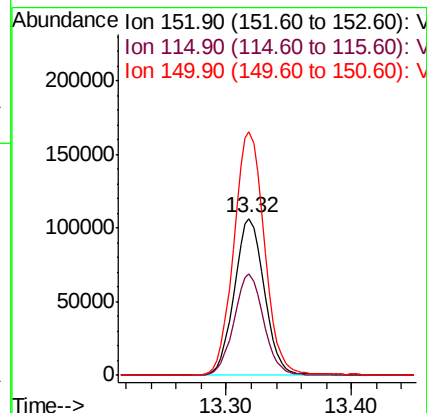
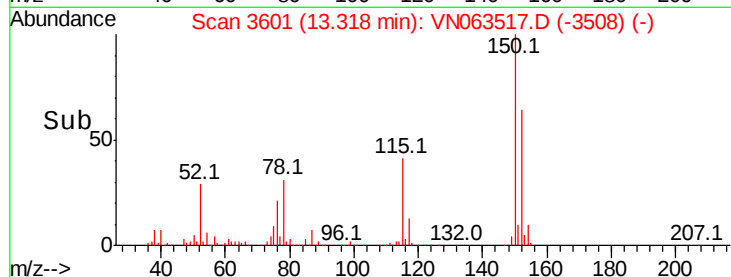
150 158.1 0.0 343.4



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



#76

1,2,3-Trichloropropane

Concen: 27.123 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063517.D

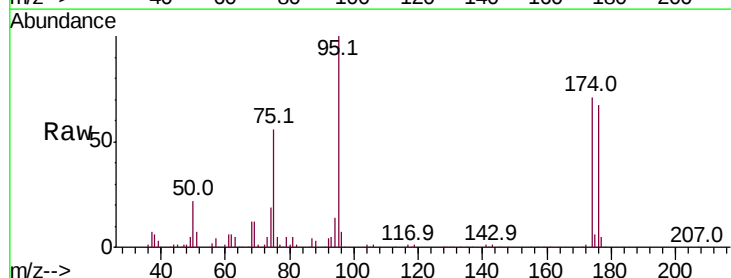
Acq: 22 Sep 2020 4:53

Tgt Ion: 75 Resp: 119347

Ion Ratio Lower Upper

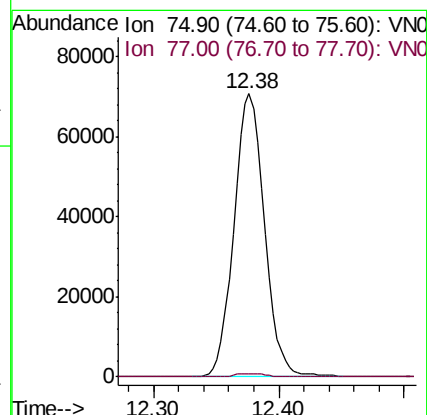
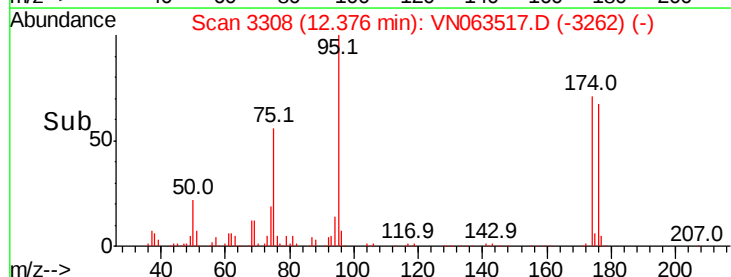
75 100

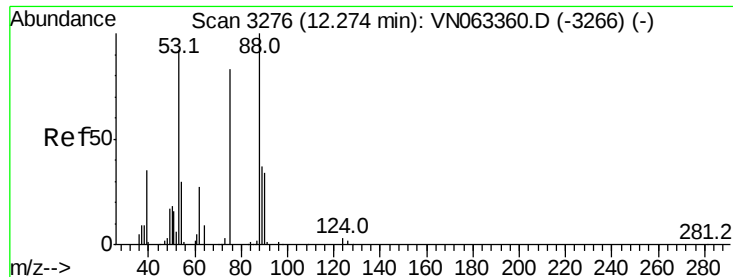
77 1.2 0.0 0.0#



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: 74.360 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063517.D

Acq: 22 Sep 2020 4:53

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200915

Tot Ion: 75 Resp: 119347

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

