

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092820\
 Data File : VN063703.D
 Acq On : 28 Sep 2020 14:21
 Operator : JC/MD
 Sample : L4133-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Sep 29 00:39:30 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	204332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	378718	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	381960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	158458	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	177536	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
35) Dibromofluoromethane	7.55	113	129105	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	10.06	98	485609	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	12.38	95	184097	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	

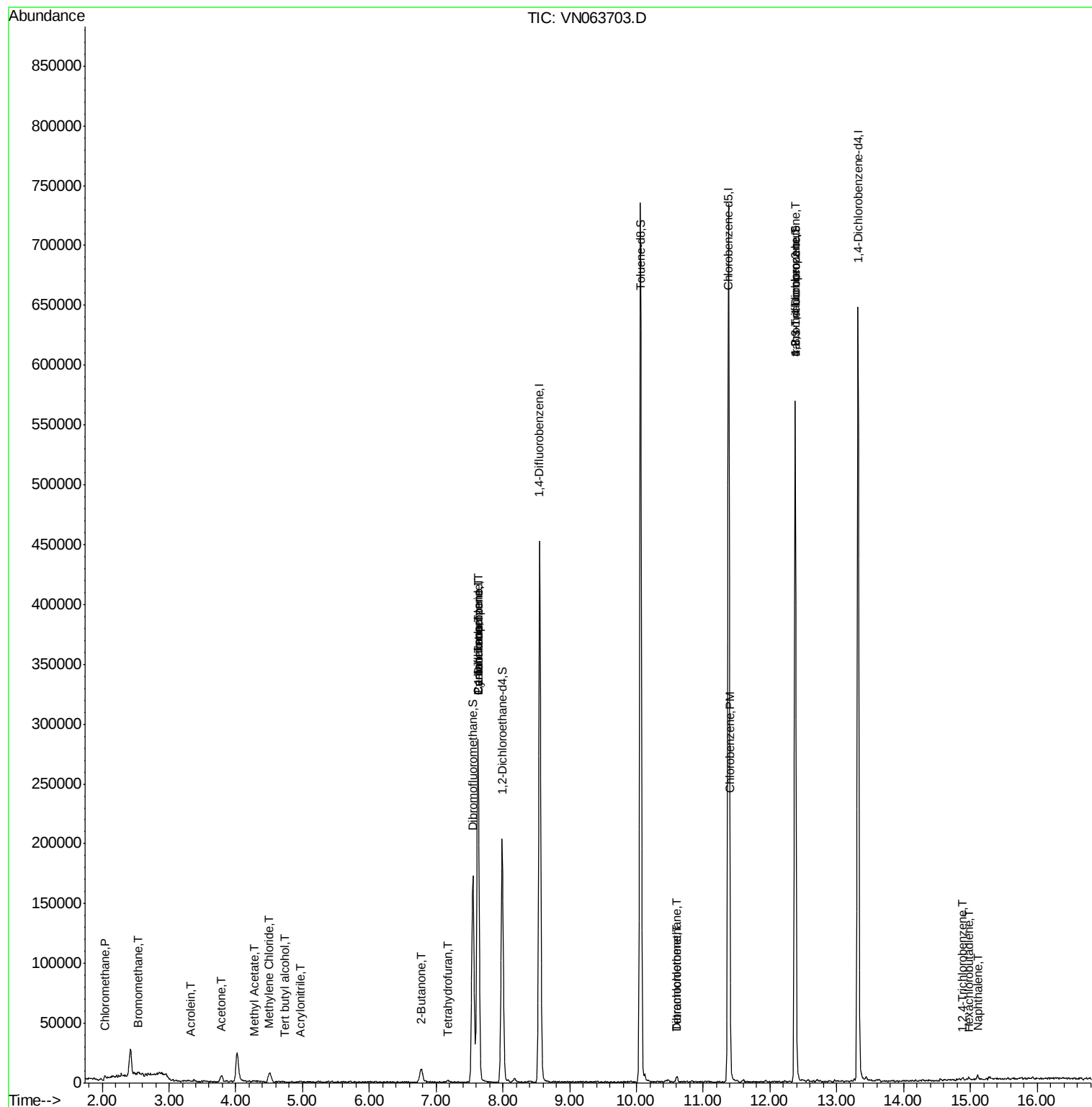
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2246	0.733	ug/l	96
5) Bromomethane	2.54	94	376	0.233	ug/l #	5
11) Tert butyl alcohol	4.73	59	120	0.249	ug/l #	72
13) Acrolein	3.33	56	67	0.375	ug/l #	13
15) Acrylonitrile	4.96	53	250	0.204	ug/l #	76
16) Acetone	3.78	43	8891	7.954	ug/l	96
18) Methyl Acetate	4.29	43	632	0.223	ug/l #	54
20) Methylene Chloride	4.50	84	2633	0.930	ug/l	92
25) 2-Butanone	6.78	43	1066	0.620	ug/l #	51
29) Tetrahydrofuran	7.16	42	470	0.400	ug/l #	66
31) Cyclohexane	7.63	56	6670	1.388	ug/l #	51
36) 1,1-Dichloropropene	7.63	75	19897	4.931	ug/l #	52
38) Carbon Tetrachloride	7.63	117	23167	5.625	ug/l #	18
60) Dibromochloromethane	10.61	129	1163	0.374	ug/l #	10
64) Tetrachloroethene	10.60	164	1104	0.424	ug/l #	68
65) Chlorobenzene	11.41	112	2662	0.328	ug/l	99
76) 1,2,3-Trichloropropane	12.38	75	106737	27.215	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106737	74.612	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.89	180	690	0.225	ug/l #	56
94) Hexachlorobutadiene	14.98	225	449	0.354	ug/l	75
95) Naphthalene	15.11	128	2891	0.286	ug/l #	91

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

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QLast Update : Wed Sep 16 13:05:20 2020
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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: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

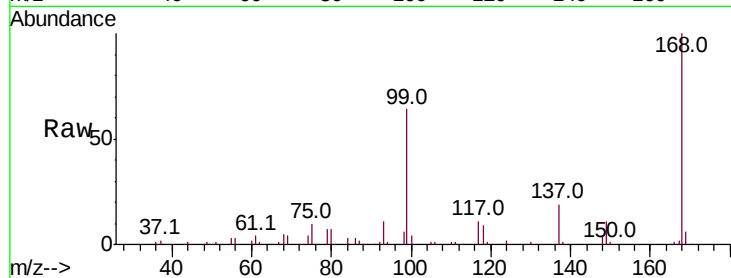
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Tot Ion:168 Resp: 204332

Ion Ratio Lower Upper

168 100

99 64.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

60000

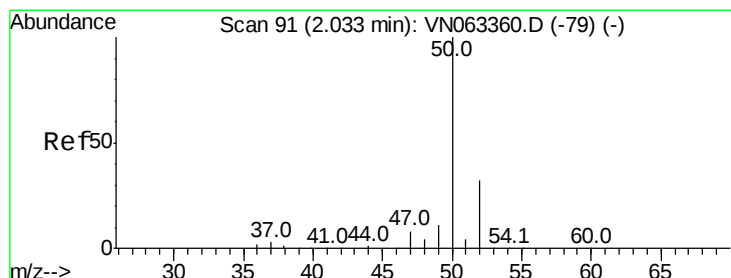
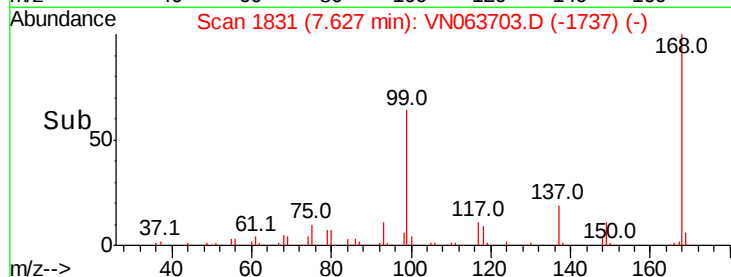
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.733 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN063703.D

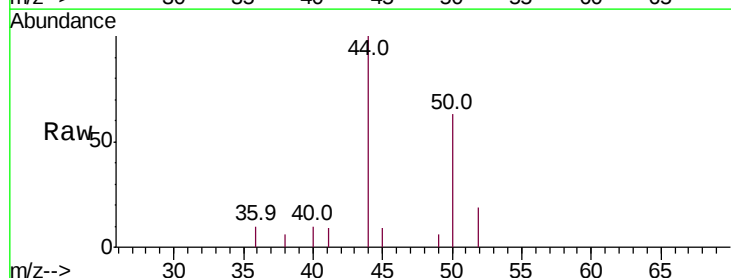
Acq: 28 Sep 2020 14:21

Tgt Ion: 50 Resp: 2246

Ion Ratio Lower Upper

50 100

52 30.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1500

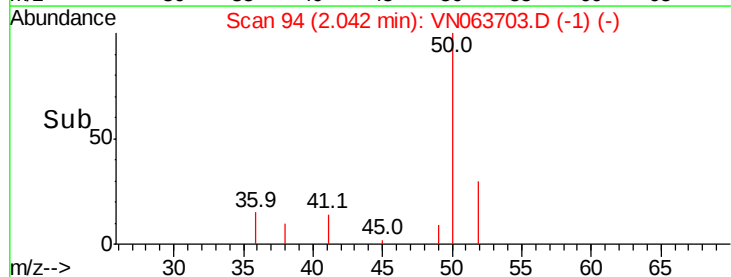
1000

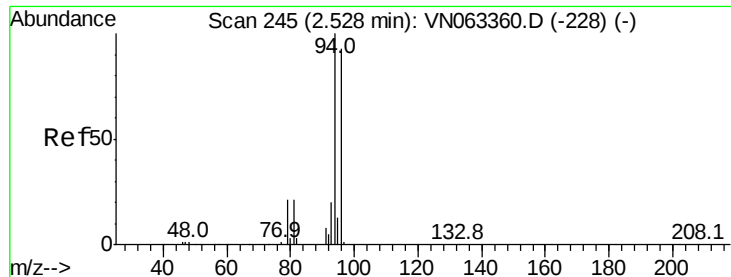
500

0

Time-->

2.00 2.05





#5

Bromomethane

Concen: 0.233 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

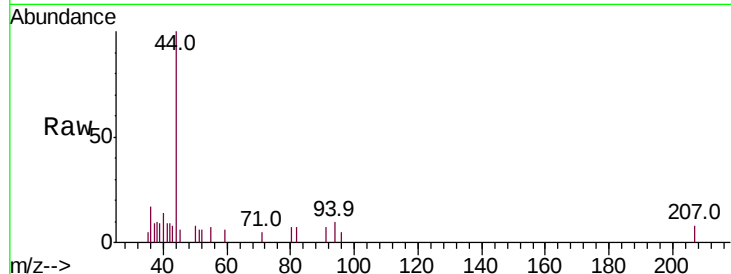
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Tot Ion: 94 Resp: 376

Ion Ratio Lower Upper

94 100

96 2.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

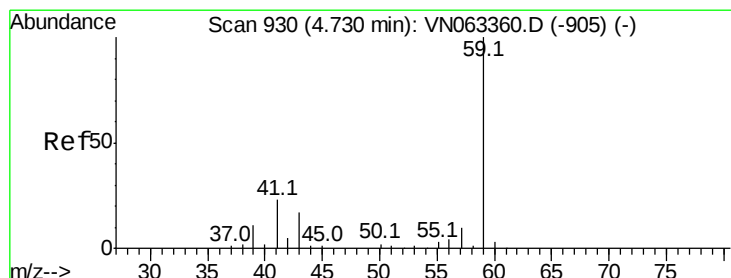
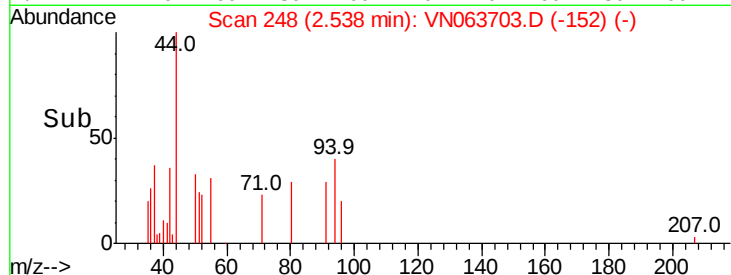
300

200

100

0

Time--> 2.50 2.52 2.54



#11

Tert butyl alcohol

Concen: 0.249 ug/l

RT: 4.73 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN063703.D

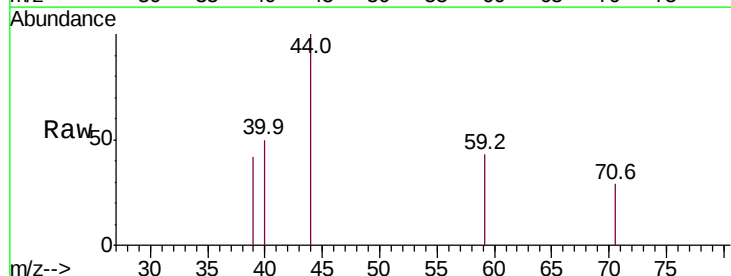
Acq: 28 Sep 2020 14:21

Tgt Ion: 59 Resp: 120

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

250

200

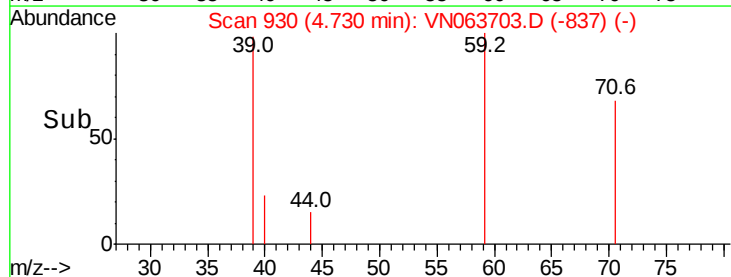
150

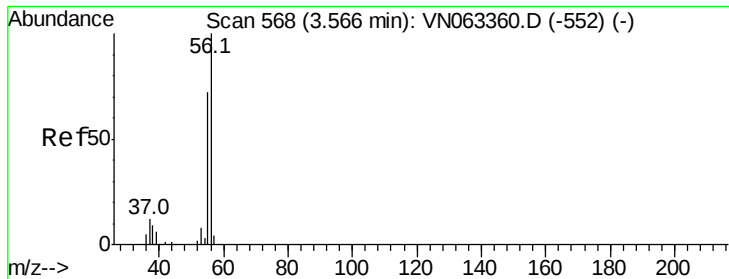
100

50

0

Time--> 4.72 4.73 4.74





#13

Acrolein

Concen: 0.375 ug/l

RT: 3.33 min Scan# 494

Delta R.T. -0.24 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampled :

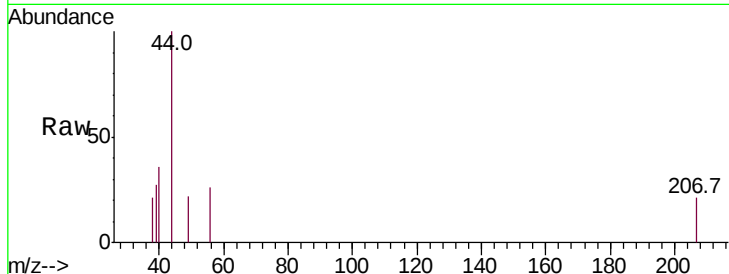
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Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

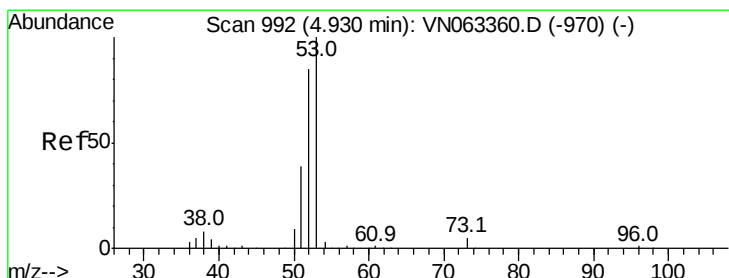
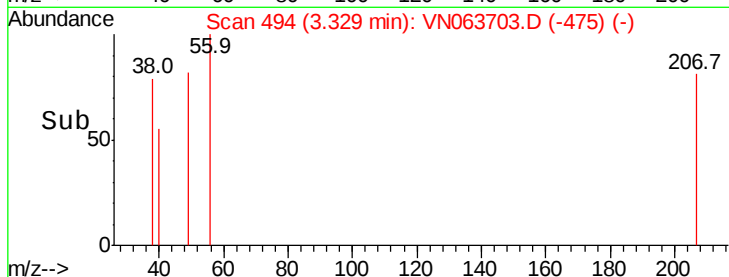
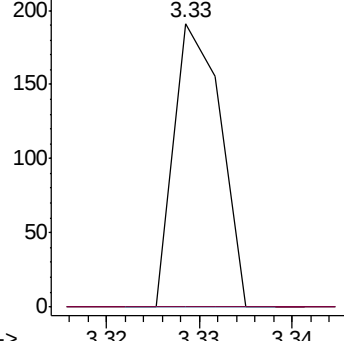
56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acrylonitrile

Concen: 0.204 ug/l

RT: 4.96 min Scan# 1002

Delta R.T. 0.03 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

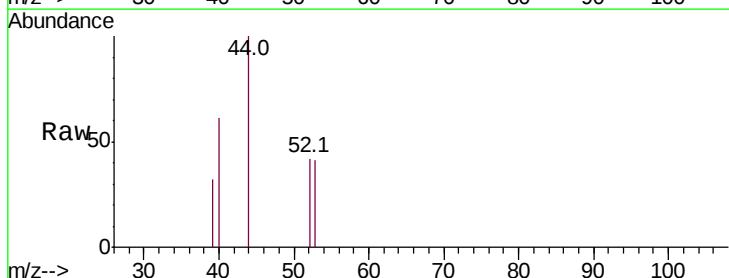
Tgt Ion: 53 Resp: 250

Ion Ratio Lower Upper

53 100

52 77.6 66.4 99.6

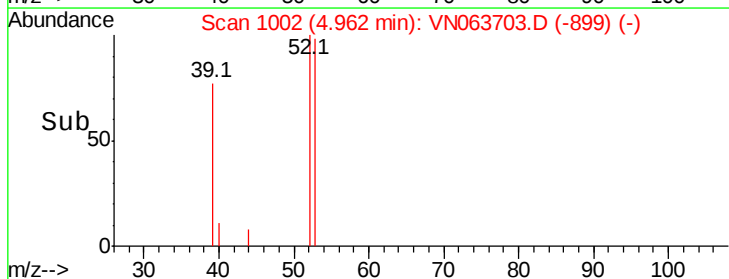
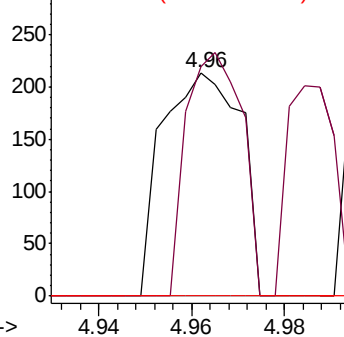
51 0.0 30.2 45.4#

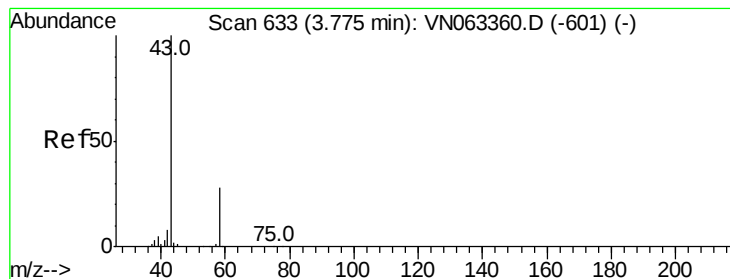


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 7.954 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

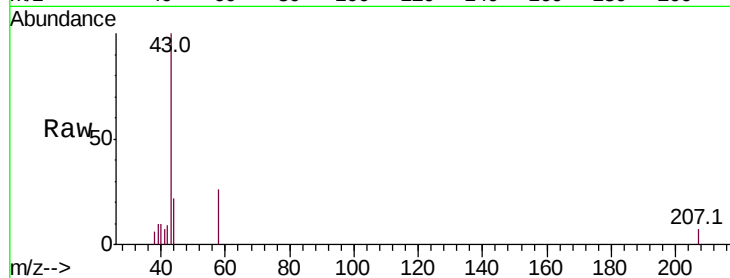
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Tot Ion: 43 Resp: 8891

Ion Ratio Lower Upper

43 100

58 25.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

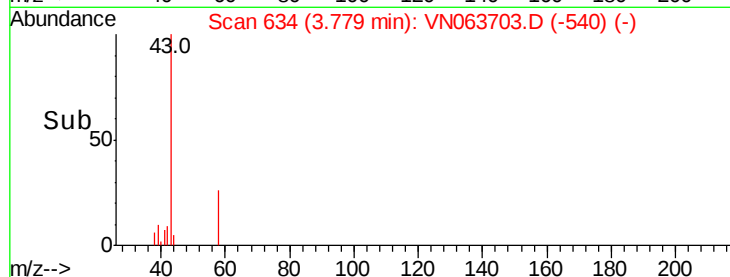
3000

2000

1000

0

Time-->



3.78

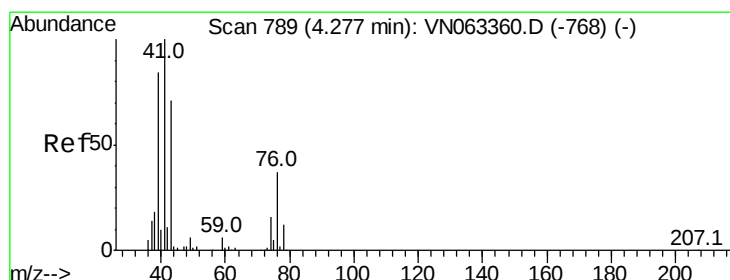
3000

2000

1000

0

Time-->



#18

Methyl Acetate

Concen: 0.223 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063703.D

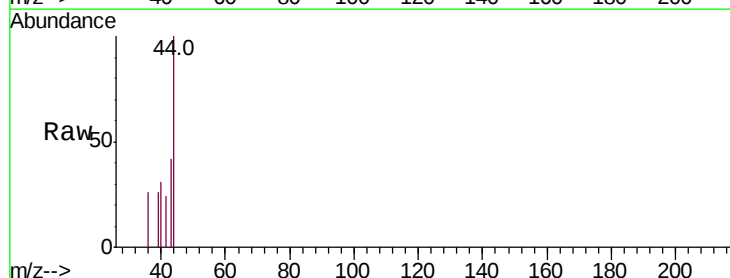
Acq: 28 Sep 2020 14:21

Tgt Ion: 43 Resp: 632

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)

4.29

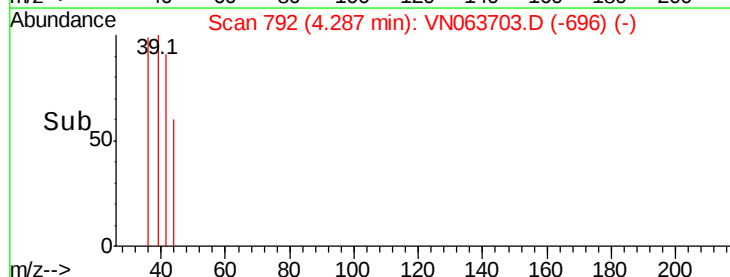
300

200

100

0

Time-->



4.29

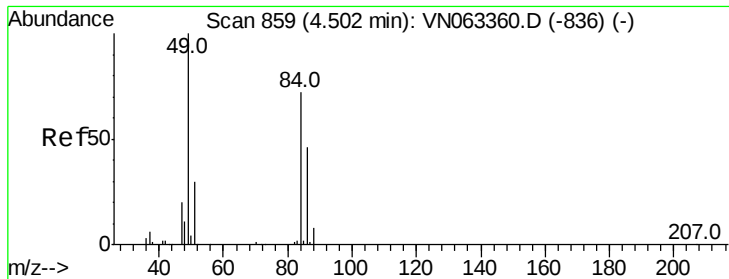
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.930 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampled :

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Tot Ion: 84 Resp: 2633

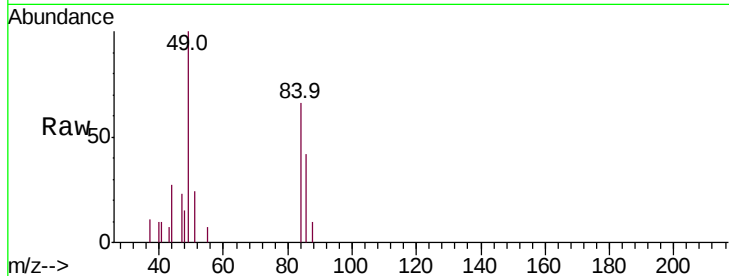
Ion Ratio Lower Upper

84 100

49 152.6 110.7 166.1

51 37.1 32.9 49.3

86 63.6 51.1 76.7

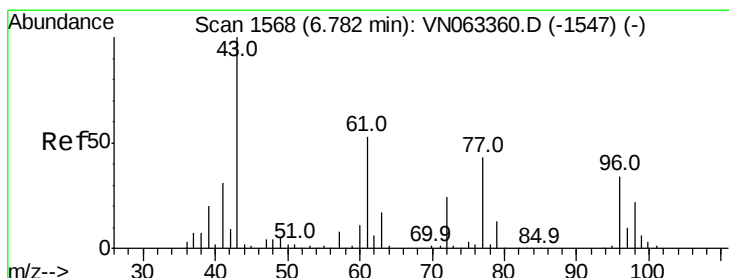
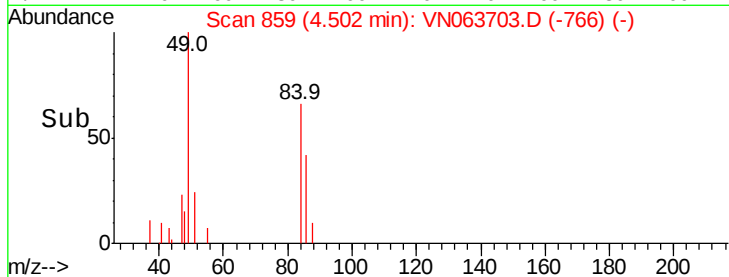
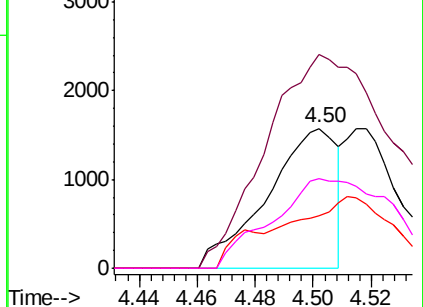


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.620 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN063703.D

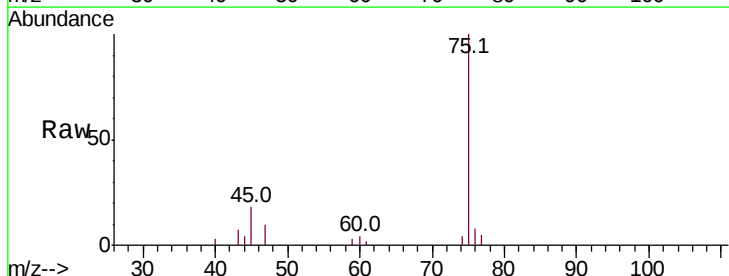
Acq: 28 Sep 2020 14:21

Tgt Ion: 43 Resp: 1066

Ion Ratio Lower Upper

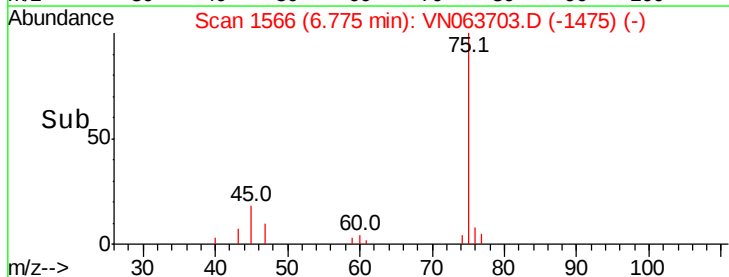
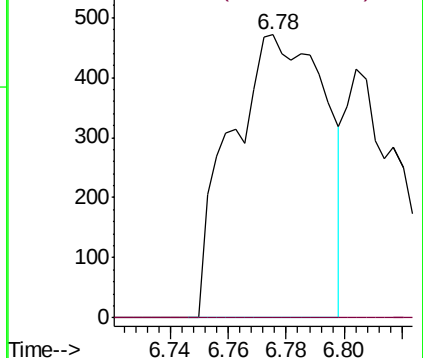
43 100

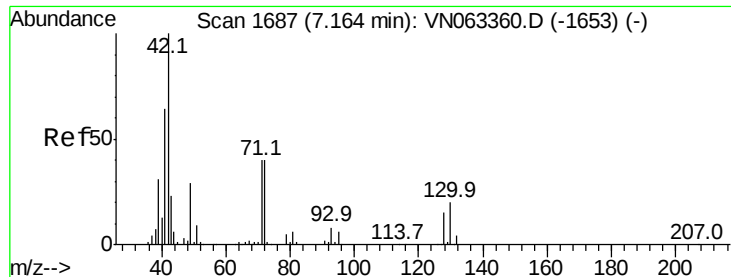
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.400 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

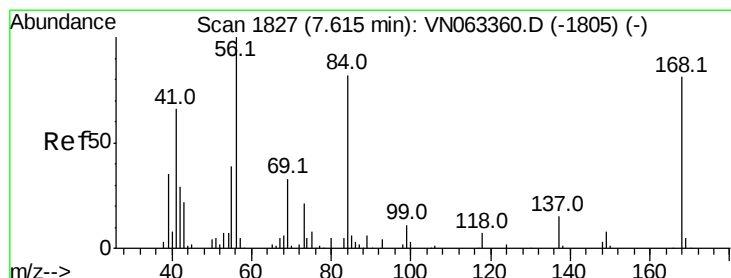
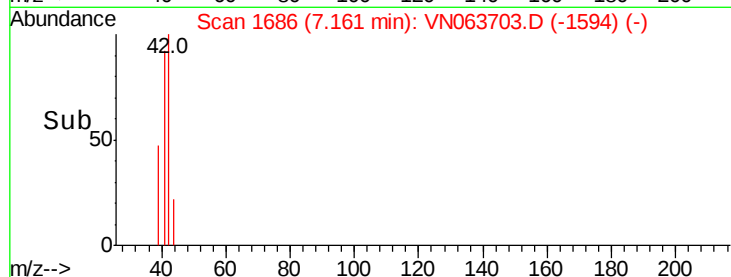
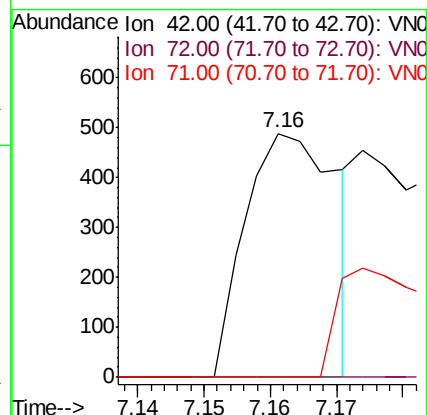
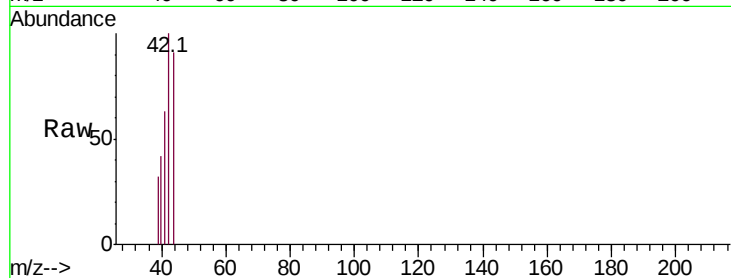
Tot Ion: 42 Resp: 470

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 39.8 31.2 46.8



#31

Cyclohexane

Concen: 1.388 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

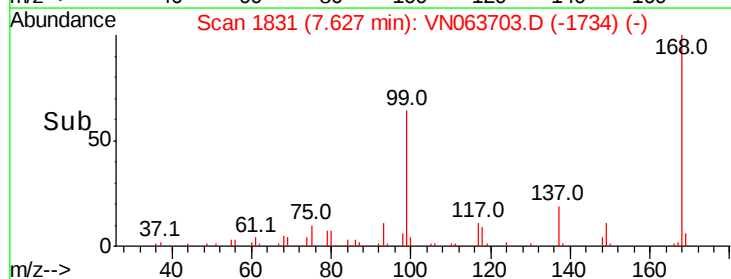
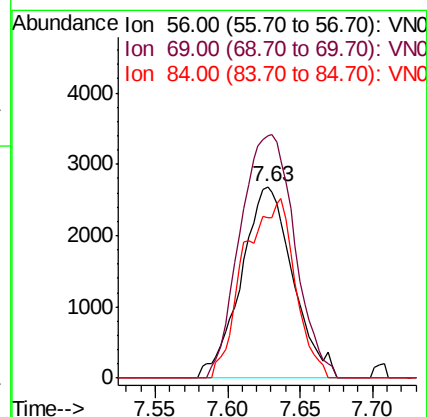
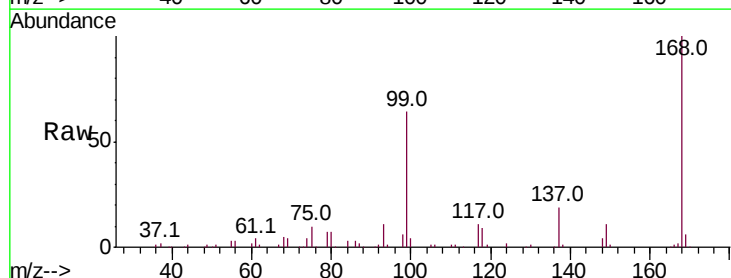
Tgt Ion: 56 Resp: 6670

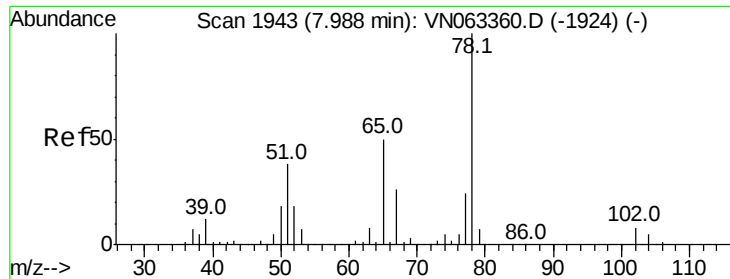
Ion Ratio Lower Upper

56 100

69 126.7 26.1 39.1#

84 83.8 65.4 98.2

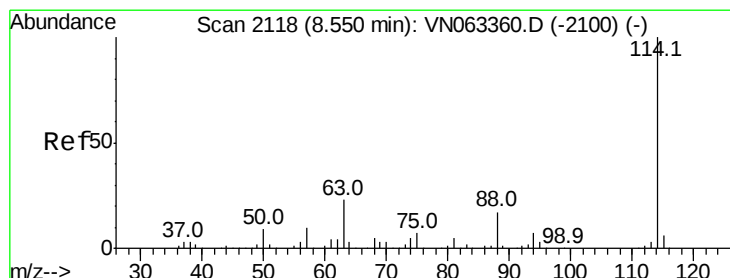
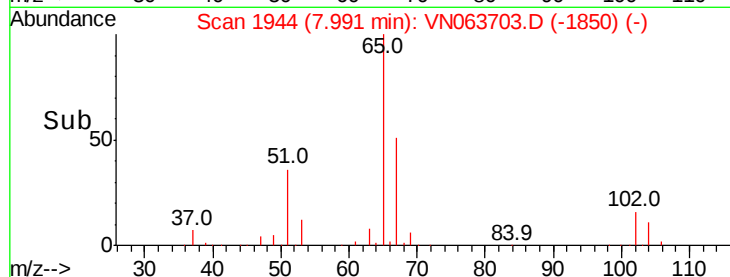
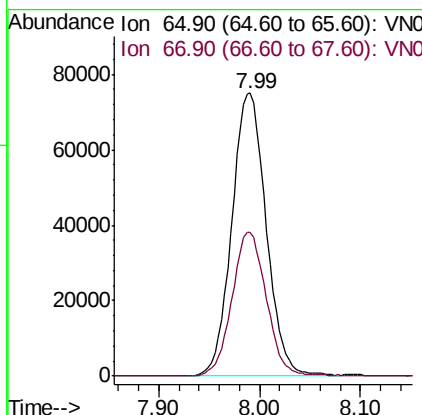
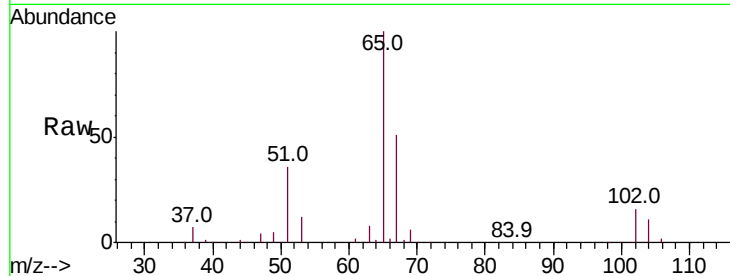




#33
 1,2-Dichloroethane-d4
 Concen: 51.041 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063703.D
 Acq: 28 Sep 2020 14:21

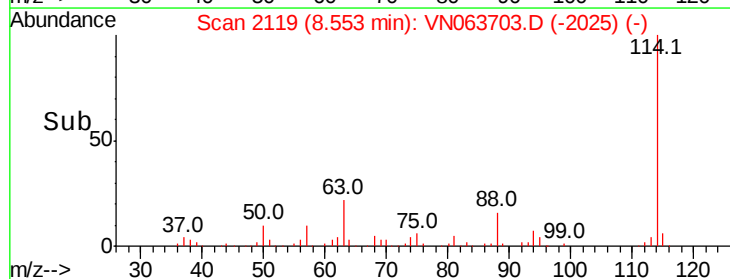
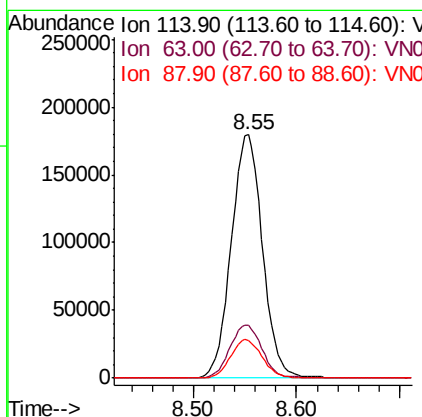
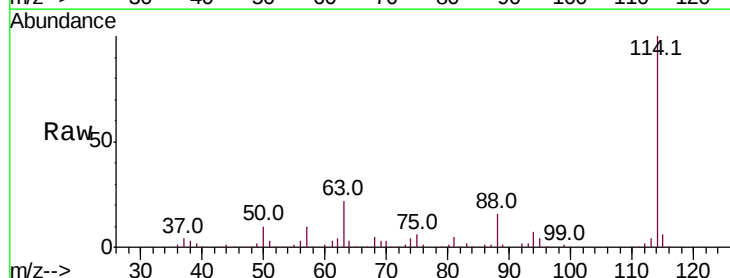
Instrument :
 MSVOA_N
 ClientSampleId :
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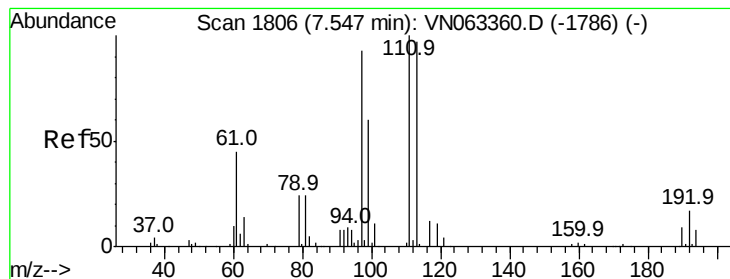
Tot Ion: 65 Resp: 177536
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063703.D
 Acq: 28 Sep 2020 14:21

Tgt Ion: 114 Resp: 378718
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 46.4
 88 15.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.243 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

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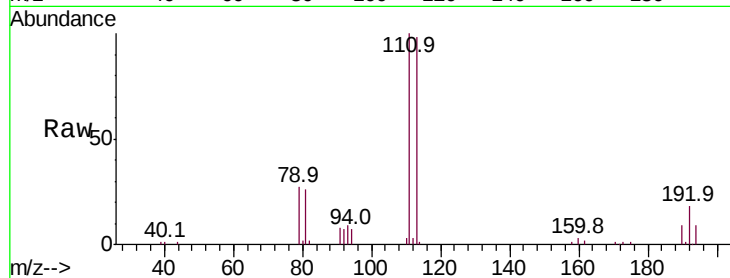
Tot Ion:113 Resp: 129105

Ion Ratio Lower Upper

113 100

111 101.4 82.9 124.3

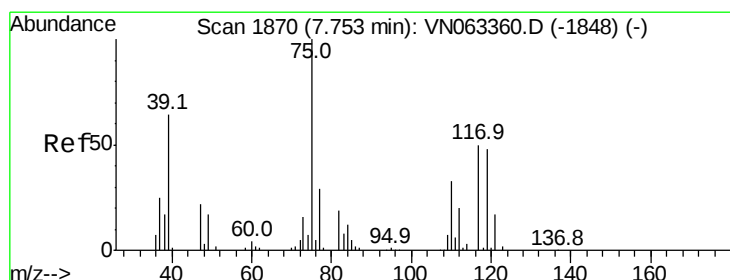
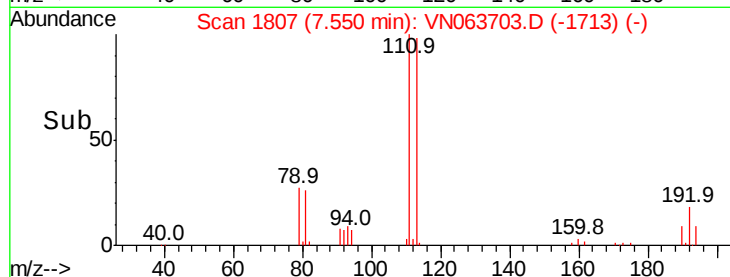
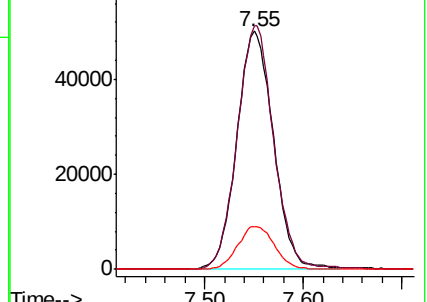
192 18.0 13.9 20.9



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: 4.931 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

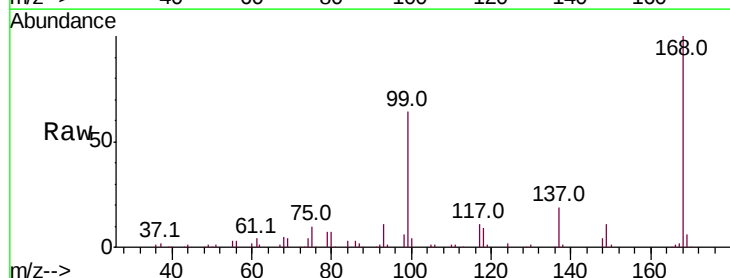
Tgt Ion: 75 Resp: 19897

Ion Ratio Lower Upper

75 100

110 9.6 16.5 49.5#

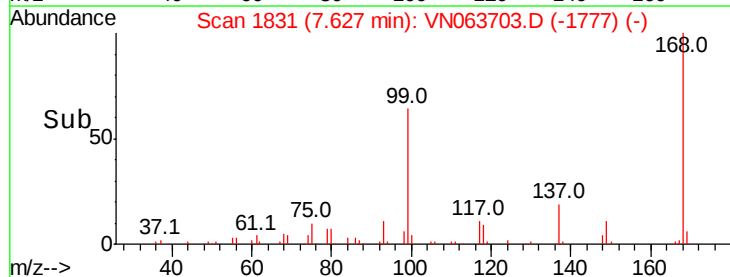
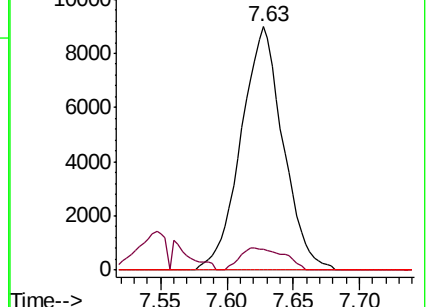
77 0.0 24.6 36.8#

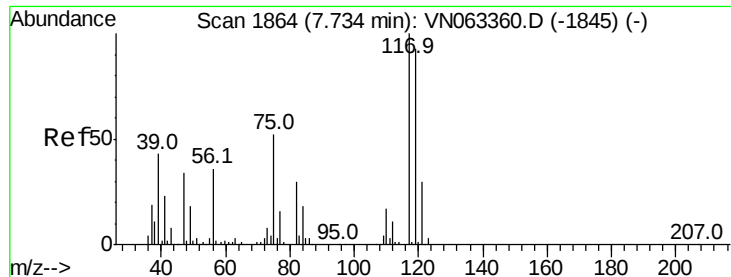


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.625 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

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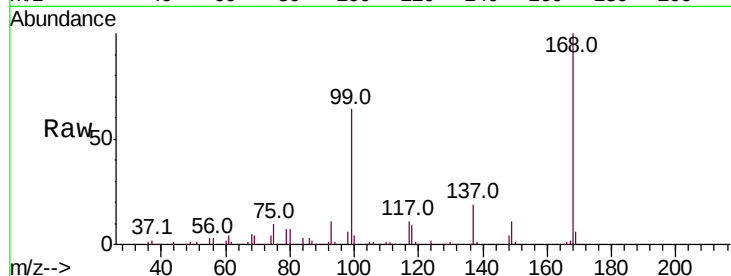
Tot Ion:117 Resp: 23167

Ion Ratio Lower Upper

117 100

119 5.6 74.5 111.7#

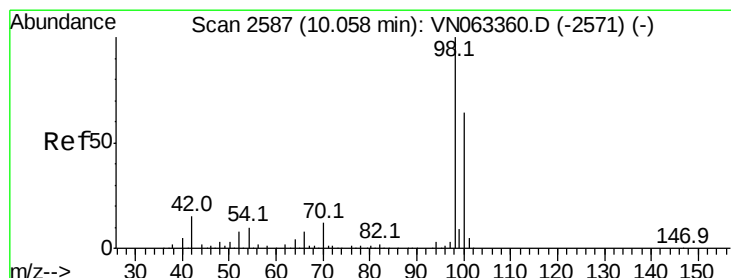
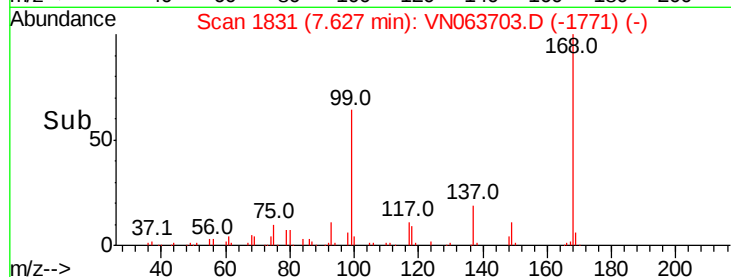
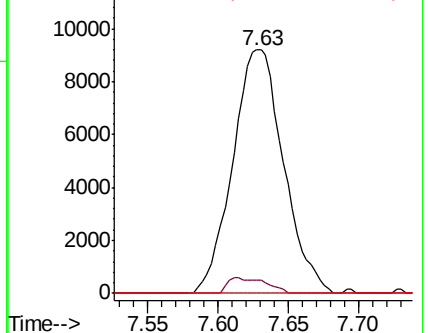
121 0.0 24.1 36.1#



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



#50

Toluene-d8

Concen: 49.258 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063703.D

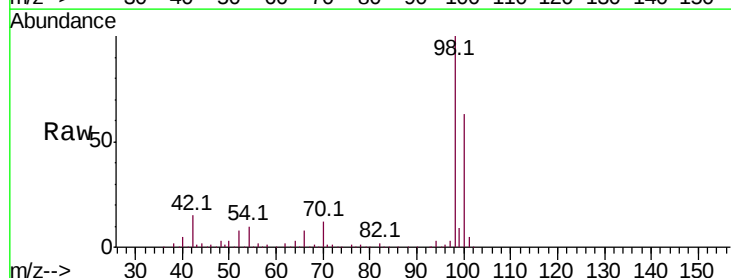
Acq: 28 Sep 2020 14:21

Tgt Ion: 98 Resp: 485609

Ion Ratio Lower Upper

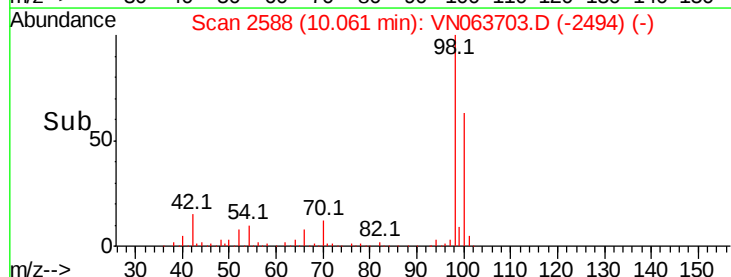
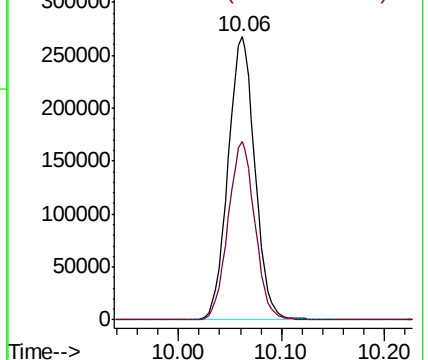
98 100

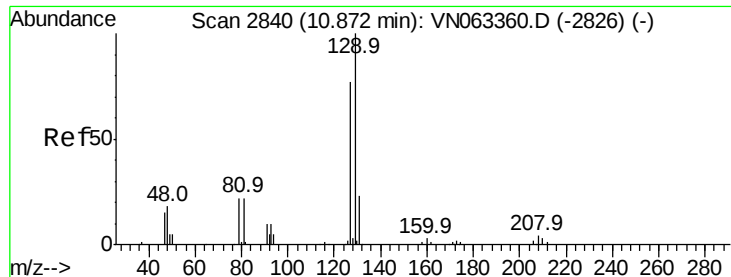
100 62.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

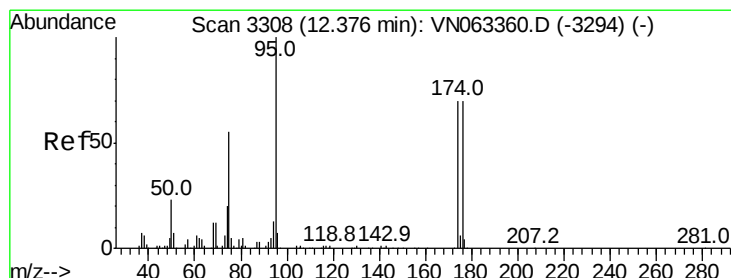
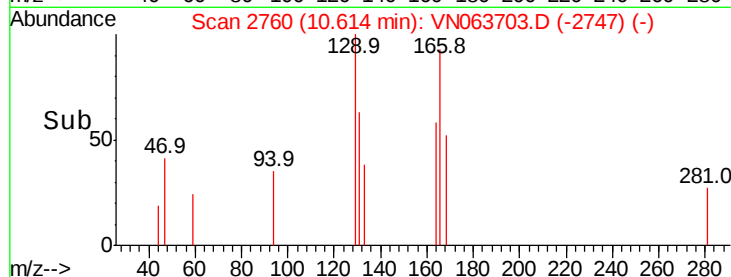
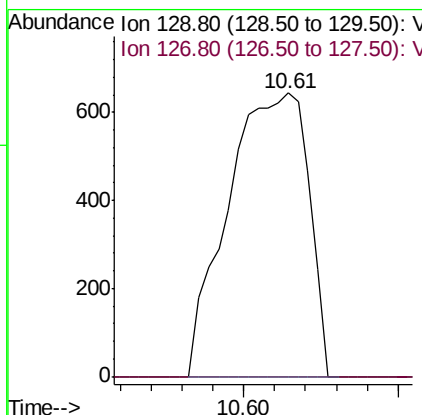
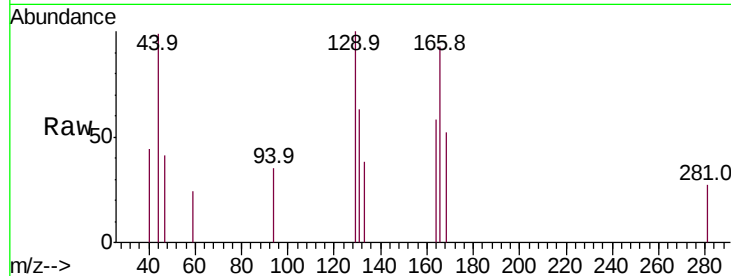




#60
Dibromochloromethane
Concen: 0.374 ug/l
RT: 10.61 min Scan# 2760
Delta R.T. -0.26 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

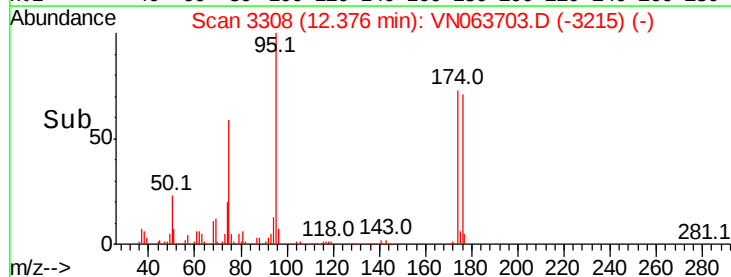
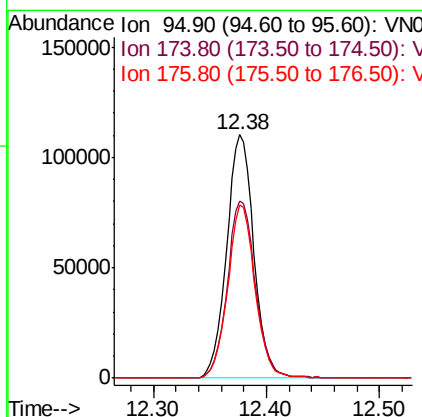
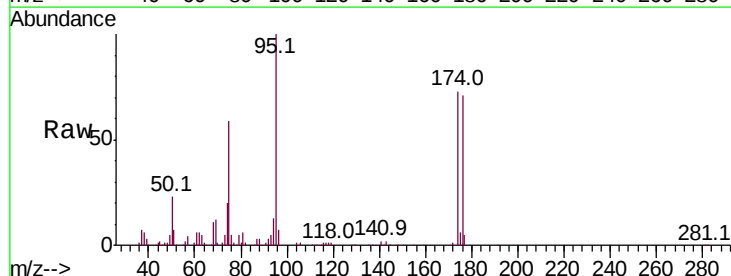
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MSVOA_N
ClientSampled :
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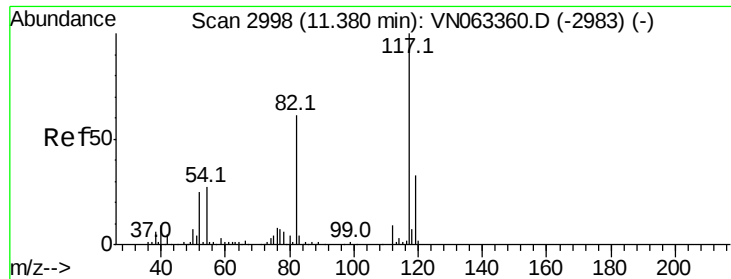
Tot Ion:129 Resp: 1163
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#



#62
4-Bromofluorobenzene
Concen: 50.941 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

Tgt Ion: 95 Resp: 184097
Ion Ratio Lower Upper
95 100
174 75.4 0.0 140.8
176 71.7 0.0 137.6

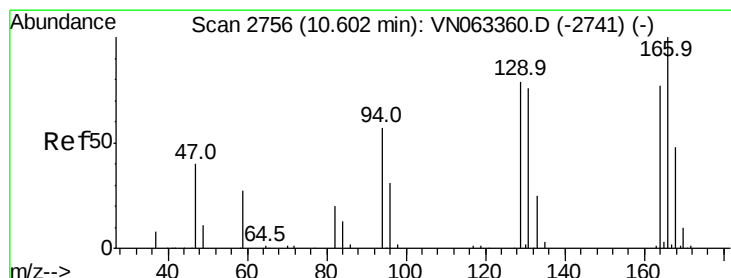
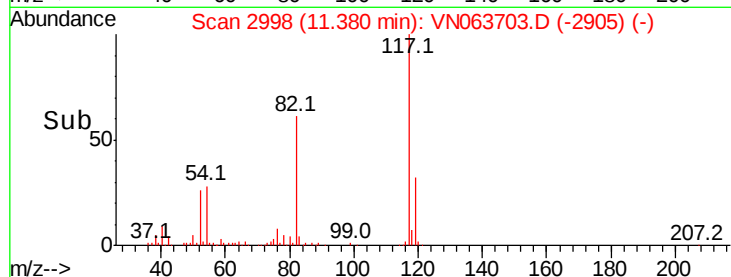
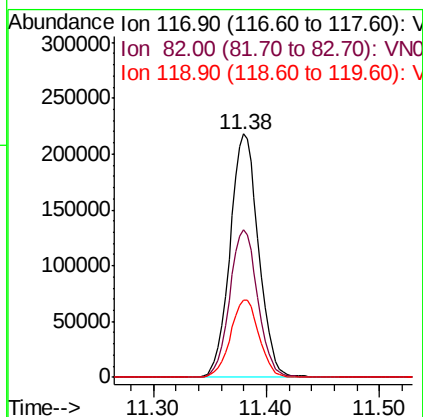
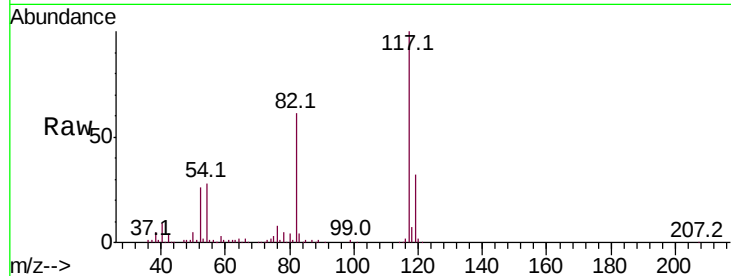




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

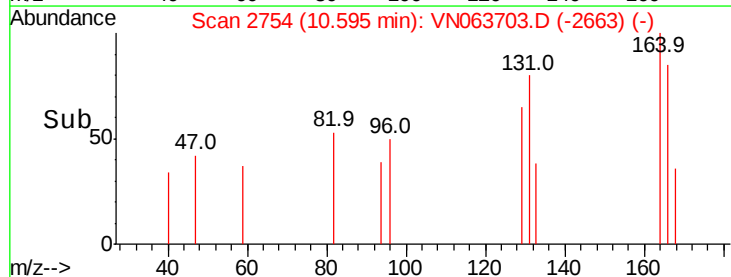
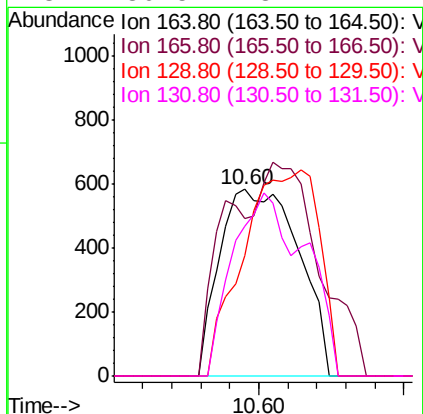
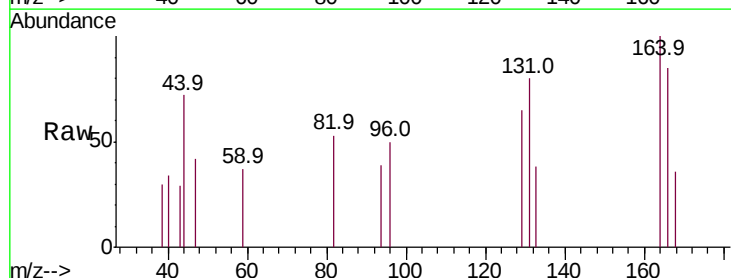
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MSVOA_N
ClientSampled :
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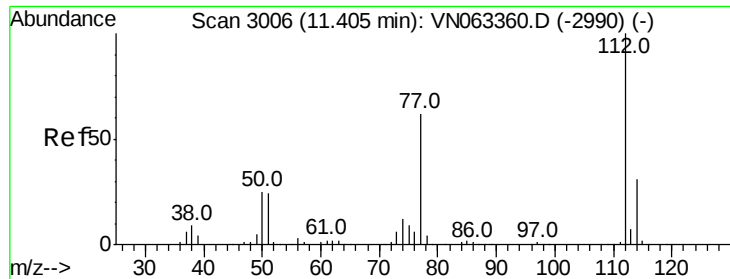
Tot Ion:117 Resp: 381960
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 31.7 26.2 39.4



#64
Tetrachloroethene
Concen: 0.424 ug/l
RT: 10.60 min Scan# 2754
Delta R.T. -0.01 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

Tgt Ion:164 Resp: 1104
Ion Ratio Lower Upper
164 100
166 84.6 103.4 155.0#
129 64.7 81.8 122.6#
131 80.5 78.2 117.4

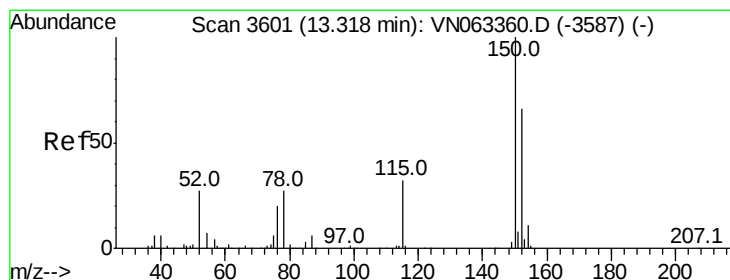
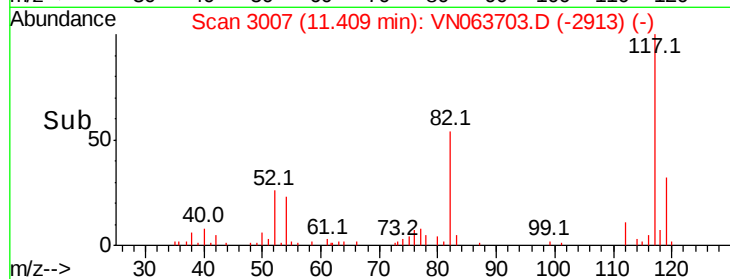
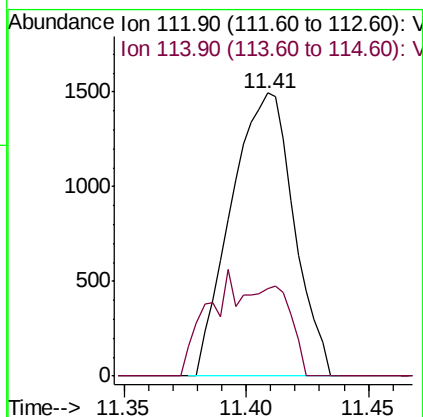
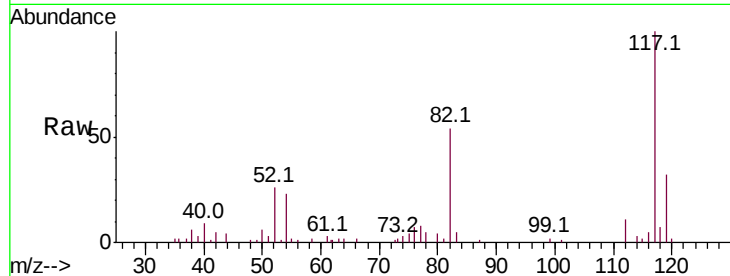




#65
Chlorobenzene
Concen: 0.328 ug/l
RT: 11.41 min Scan# 3007
Delta R.T. 0.00 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

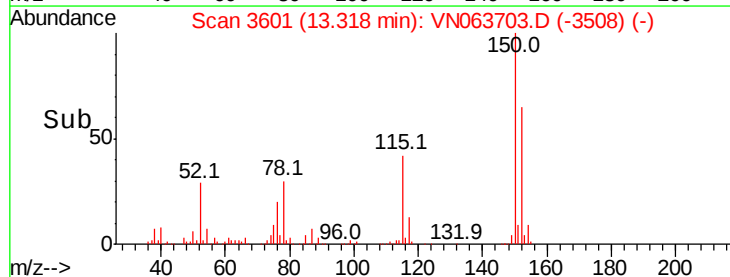
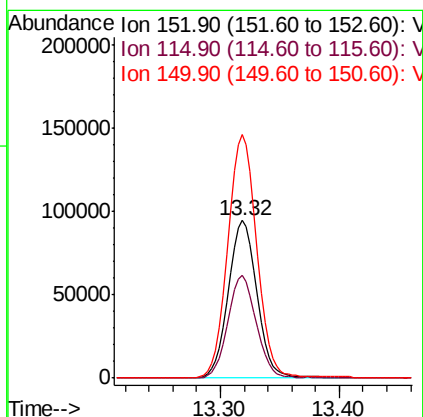
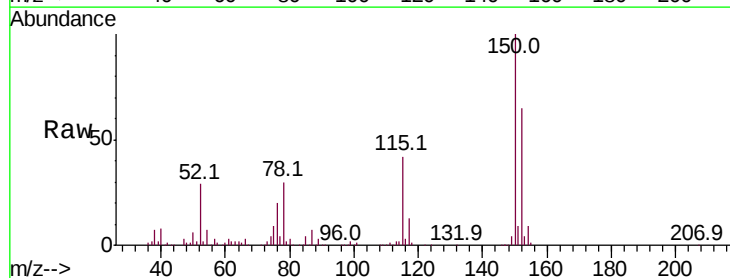
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MSVOA_N
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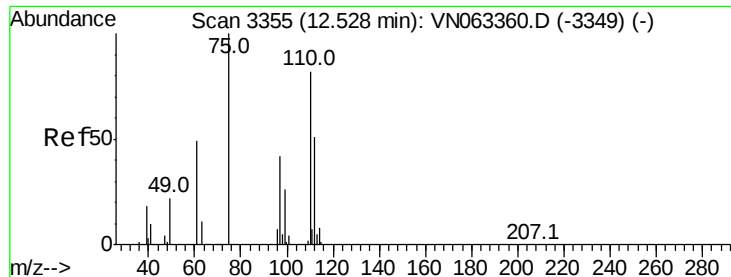
Tot Ion:112 Resp: 2662
Ion Ratio Lower Upper
112 100
114 30.7 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063703.D
Acq: 28 Sep 2020 14:21

Tgt Ion:152 Resp: 158458
Ion Ratio Lower Upper
152 100
115 64.2 32.2 96.6
150 156.4 0.0 343.4





#76

1,2,3-Trichloropropane

Concen: 27.215 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampled :

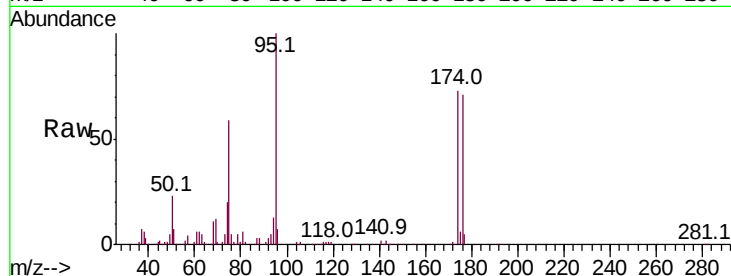
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Tot Ion: 75 Resp: 106737

Ion Ratio Lower Upper

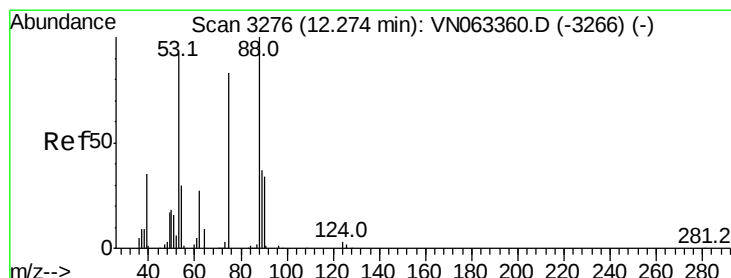
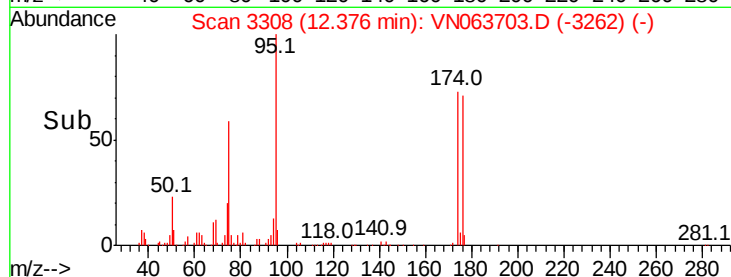
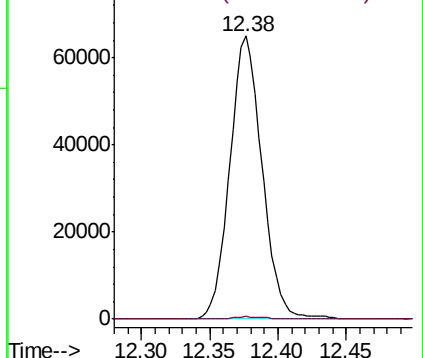
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 74.612 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

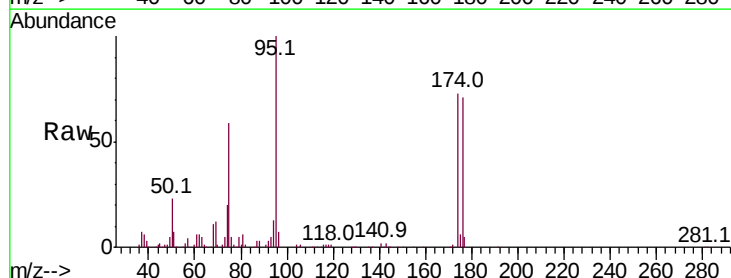
Tgt Ion: 75 Resp: 106737

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

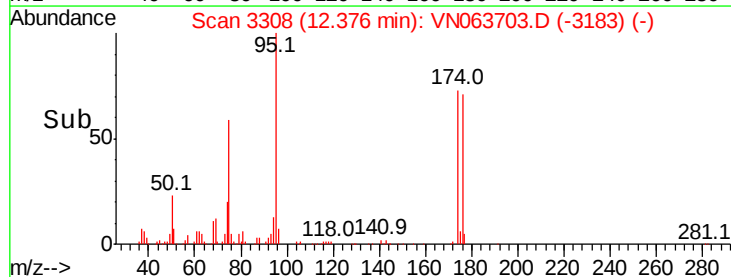
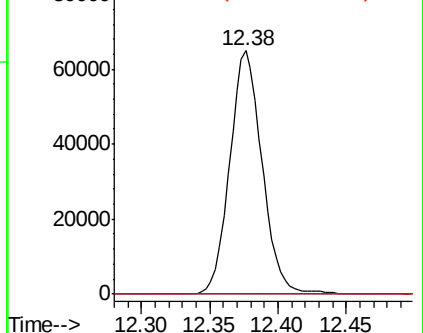
89 0.0 38.0 57.0#

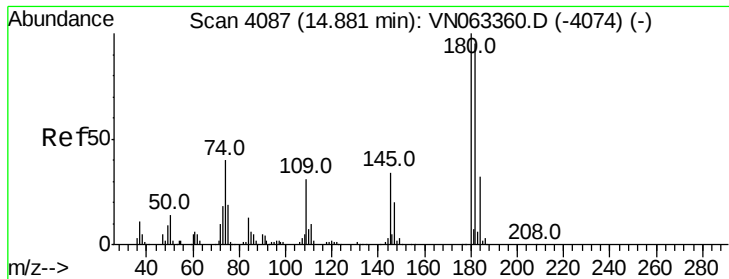


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

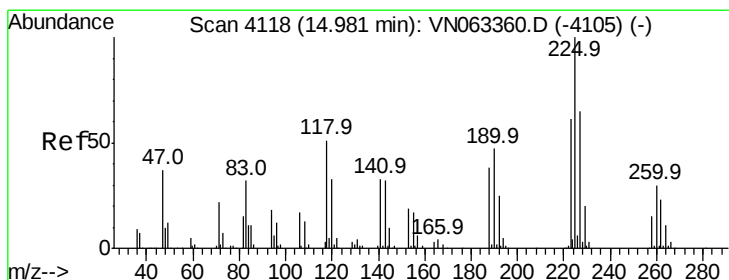
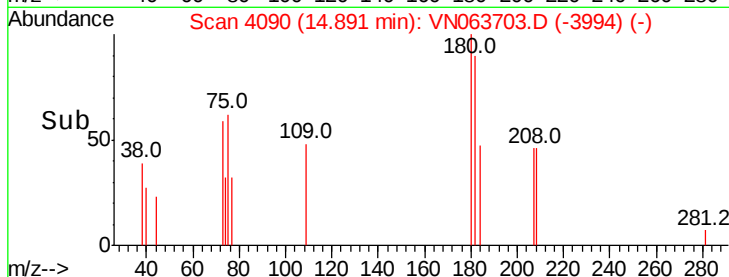
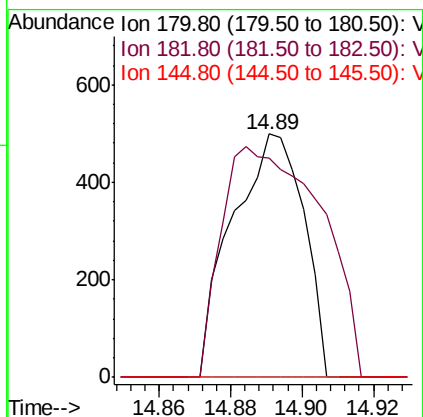
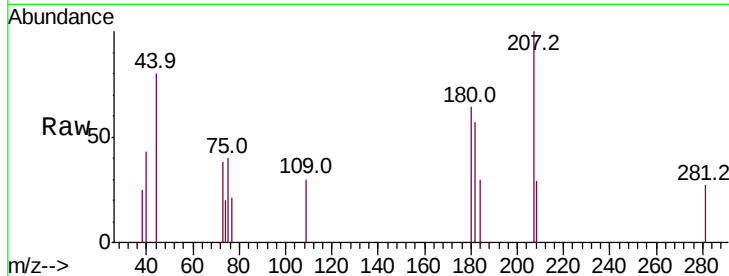




#93
 1,2,4-Trichlorobenzene
 Concen: 0.225 ug/l
 RT: 14.89 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN063703.D
 Acq: 28 Sep 2020 14:21

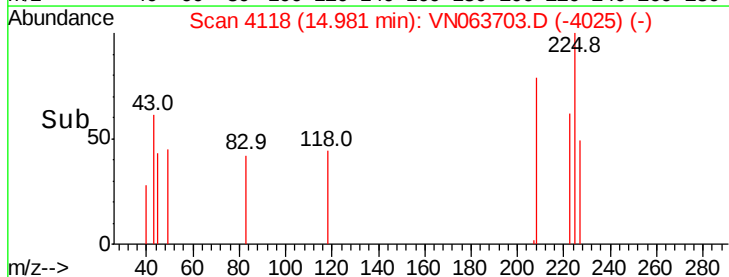
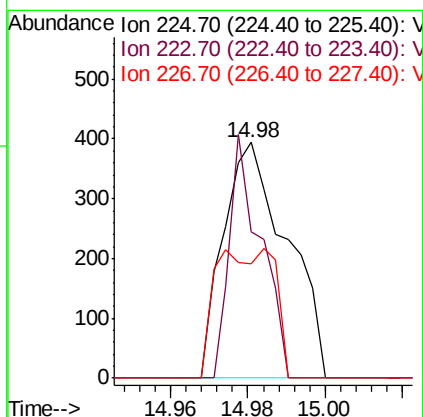
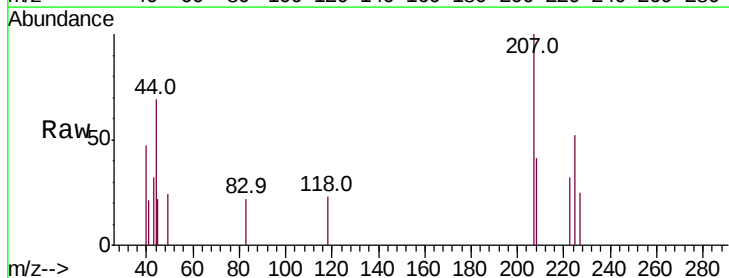
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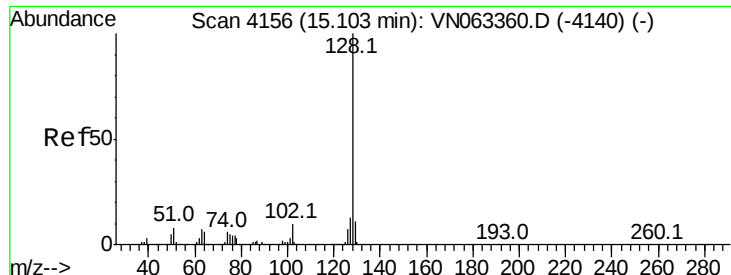
Tot Ion:180 Resp: 690
 Ion Ratio Lower Upper
 180 100
 182 131.9 47.3 142.0
 145 0.0 16.6 49.7#



#94
 Hexachlorobutadiene
 Concen: 0.354 ug/l
 RT: 14.98 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN063703.D
 Acq: 28 Sep 2020 14:21

Tgt Ion:225 Resp: 449
 Ion Ratio Lower Upper
 225 100
 223 51.0 30.6 91.6
 227 33.6 31.2 93.6





#95

Naphthalene

Concen: 0.286 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063703.D

Acq: 28 Sep 2020 14:21

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion:128 Resp: 2891

Ion Ratio Lower Upper

128 100

127 12.1 10.6 15.8

129 4.6 8.8 13.2#

