

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063631.D
 Acq On : 24 Sep 2020 16:16
 Operator : JC/MD
 Sample : L4119-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200921

Quant Time: Sep 25 03:49:47 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	194321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	366384	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	375527	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	157765	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	170542	51.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.12%	
35) Dibromofluoromethane	7.55	113	120471	47.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
50) Toluene-d8	10.06	98	480096	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
62) 4-Bromofluorobenzene	12.38	95	182634	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	

Target Compounds

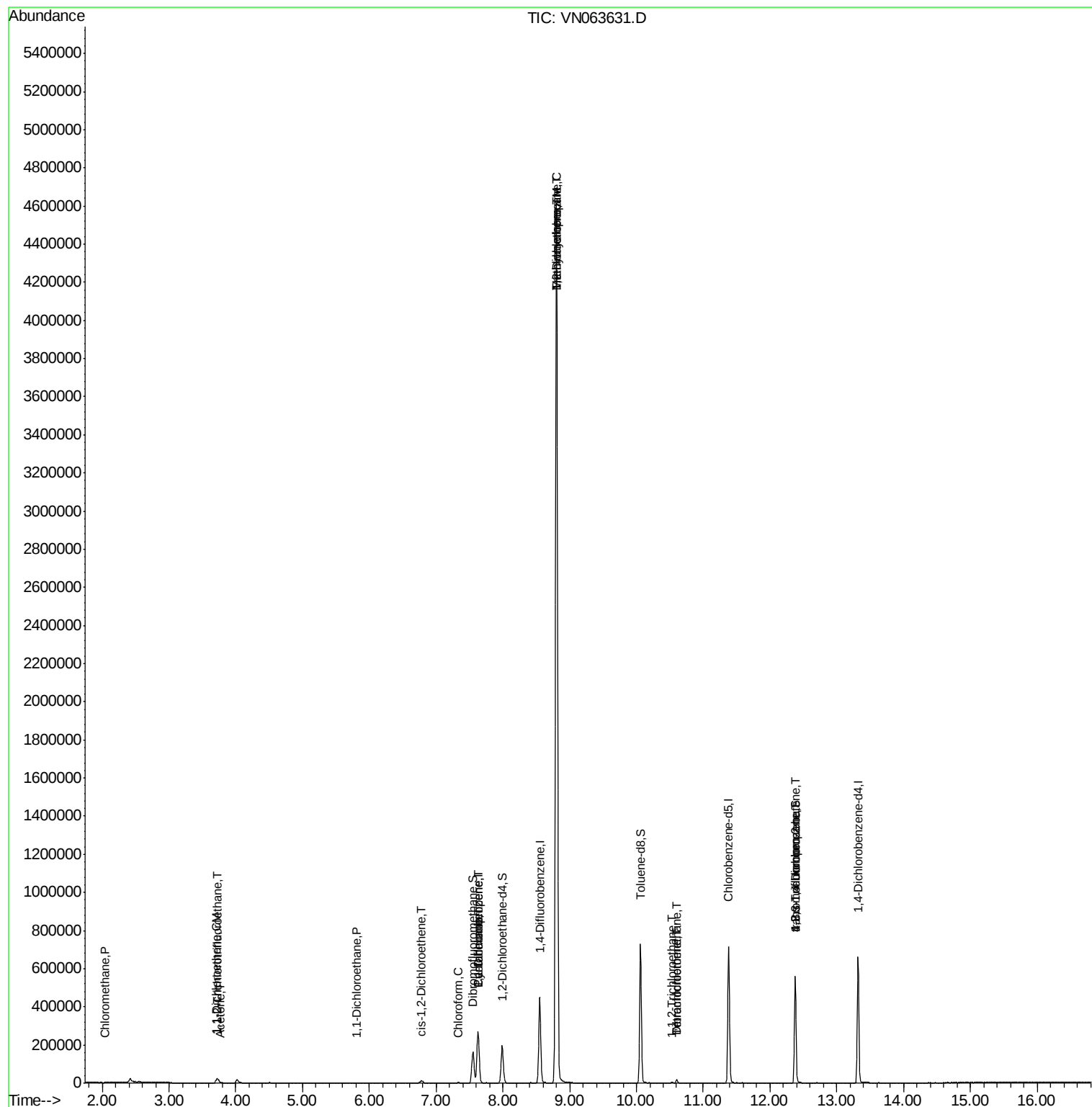
						Qvalue
3) Chloromethane	2.04	50	1098	0.377	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	13658	6.309	ug/l #	88
12) 1,1-Dichloroethene	3.70	96	1274	0.581	ug/l #	65
16) Acetone	3.77	43	813	0.765	ug/l #	77
24) 1,1-Dichloroethane	5.81	63	1576	0.326	ug/l #	84
27) cis-1,2-Dichloroethene	6.78	96	1597	0.581	ug/l	80
30) Chloroform	7.33	83	1574	0.325	ug/l	90
31) Cyclohexane	7.62	56	5829	1.276	ug/l #	44
36) 1,1-Dichloropropene	7.63	75	19097	4.893	ug/l #	49
39) Methylcyclohexane	8.80	83	21606	5.100	ug/l #	1
44) Trichloroethene	8.80	130	1528366	565.524	ug/l	99
45) 1,2-Dichloropropane	8.80	63	4467	1.472	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	645	0.242	ug/l #	89
60) Dibromochloromethane	10.60	129	2865	0.953	ug/l #	10
64) Tetrachloroethene	10.60	164	3173	1.241	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	106362	27.238	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106362	74.676	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: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

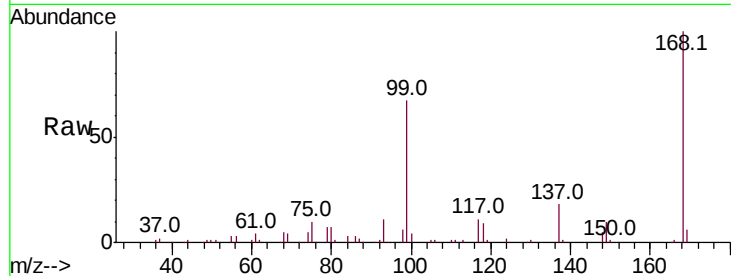
RE103D3-20200921

Tot Ion:168 Resp: 194321

Ion Ratio Lower Upper

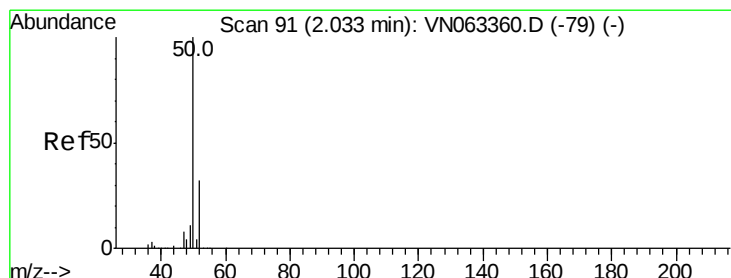
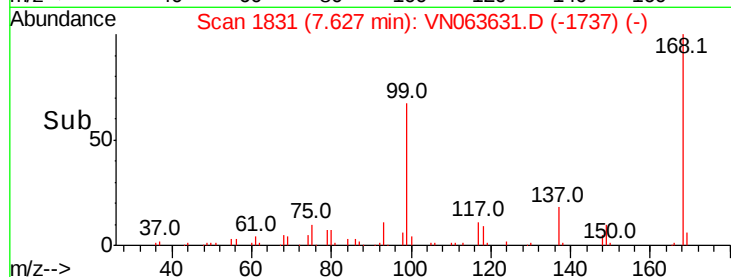
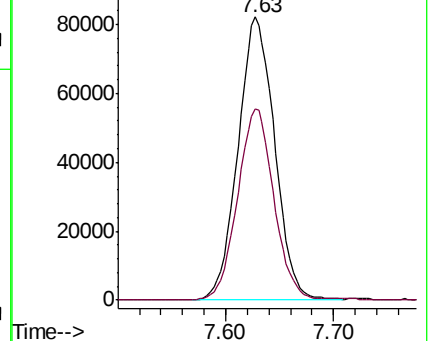
168 100

99 67.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.377 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063631.D

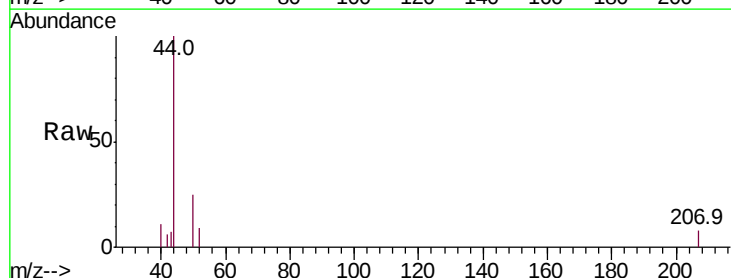
Acq: 24 Sep 2020 16:16

Tgt Ion: 50 Resp: 1098

Ion Ratio Lower Upper

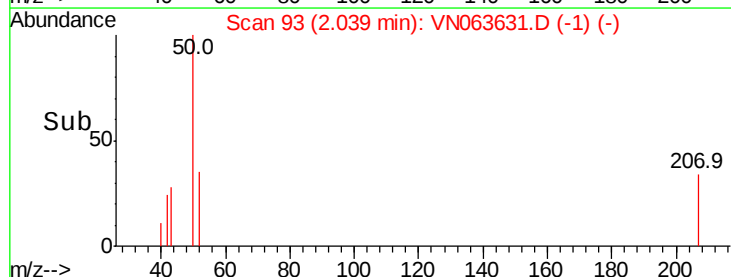
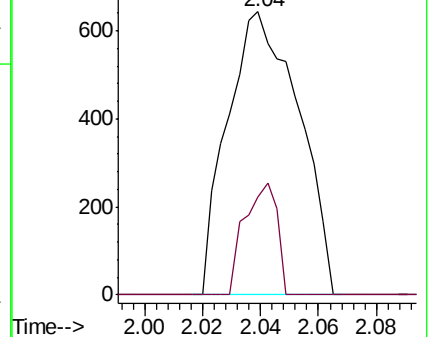
50 100

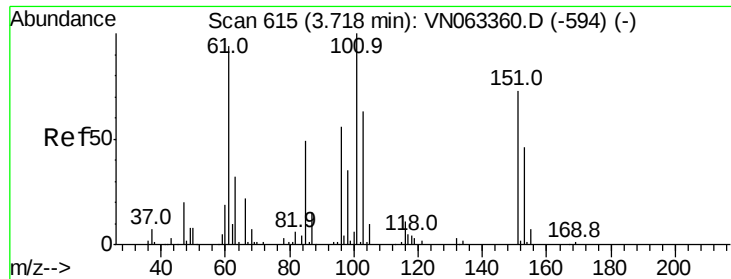
52 34.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.309 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200921

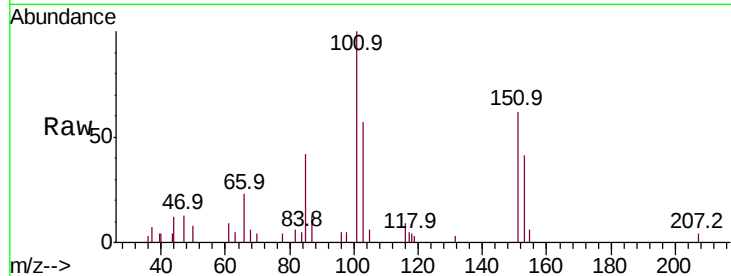
Tot Ion:101 Resp: 13658

Ion Ratio Lower Upper

101 100

85 28.2 37.7 56.5#

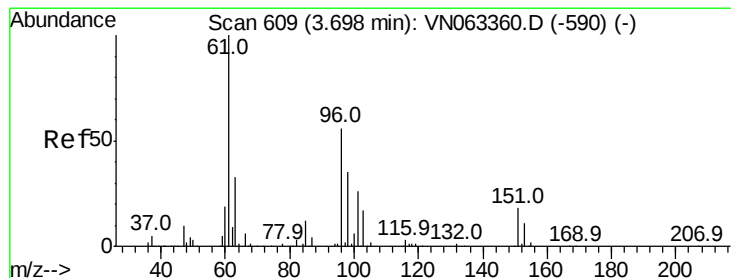
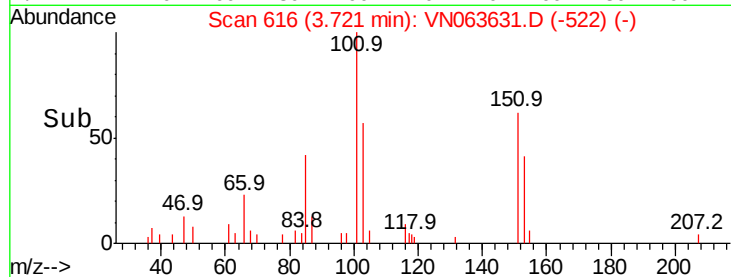
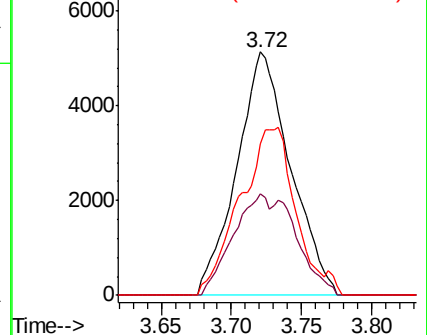
151 71.6 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.581 ug/l

RT: 3.70 min Scan# 611

Delta R.T. 0.01 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

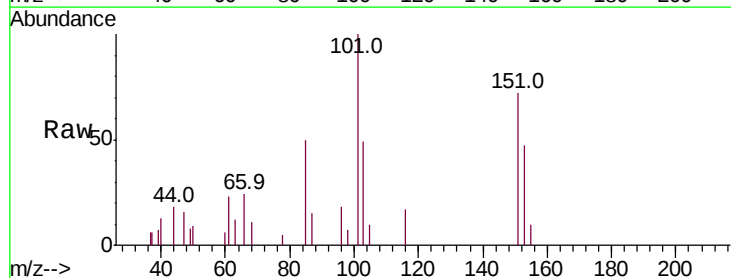
Tgt Ion: 96 Resp: 1274

Ion Ratio Lower Upper

96 100

61 127.9 143.4 215.2#

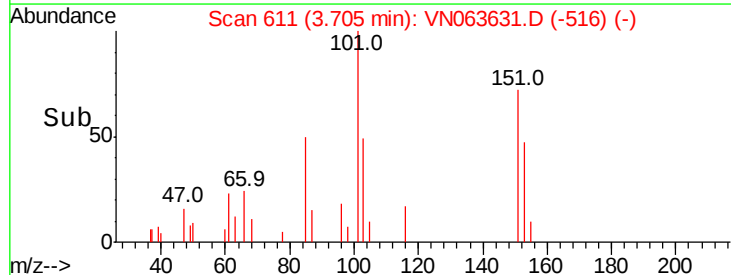
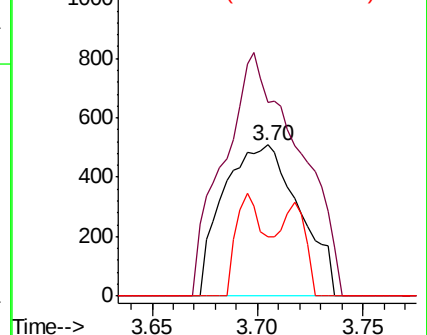
98 39.5 50.6 76.0#

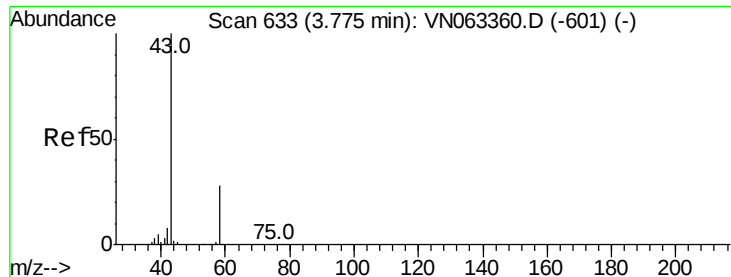


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 0.765 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

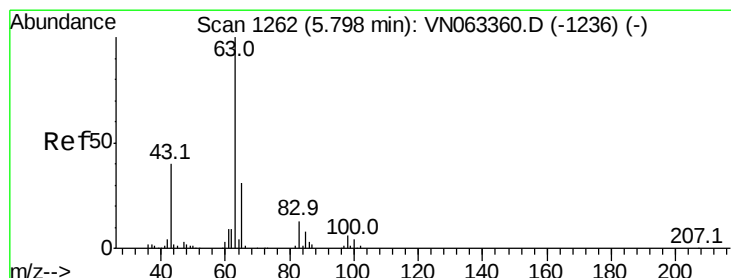
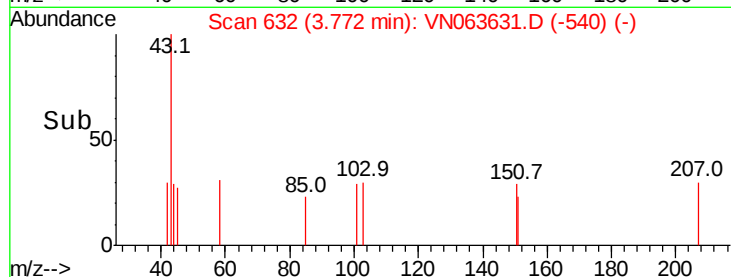
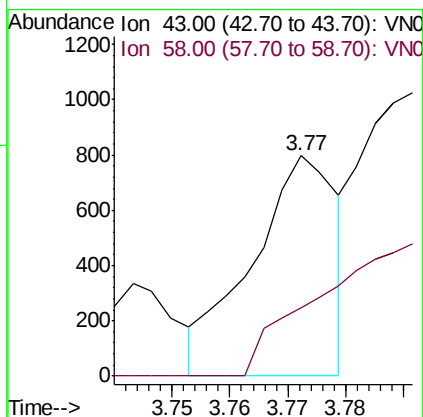
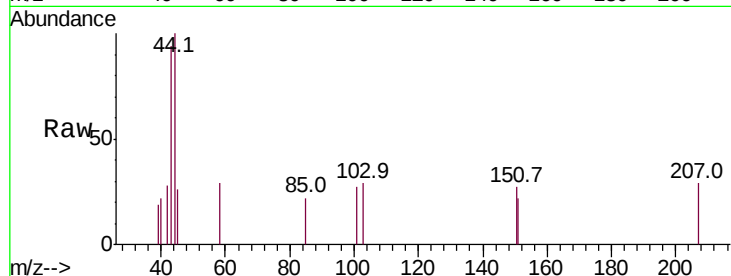
RE103D3-20200921

Tot Ion: 43 Resp: 813

Ion Ratio Lower Upper

43 100

58 39.9 22.3 33.5#



#24

1,1-Dichloroethane

Concen: 0.326 ug/l

RT: 5.81 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

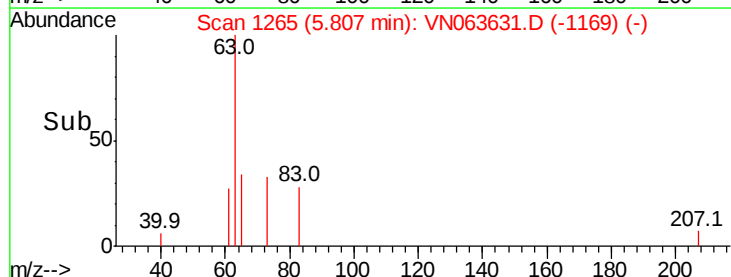
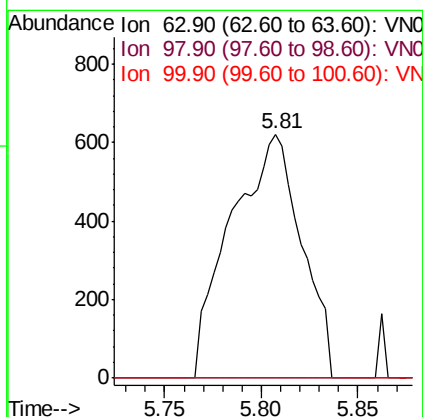
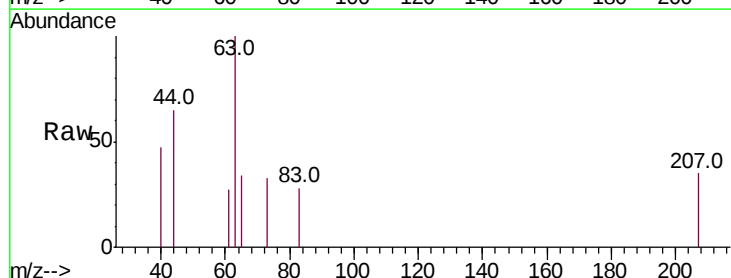
Tgt Ion: 63 Resp: 1576

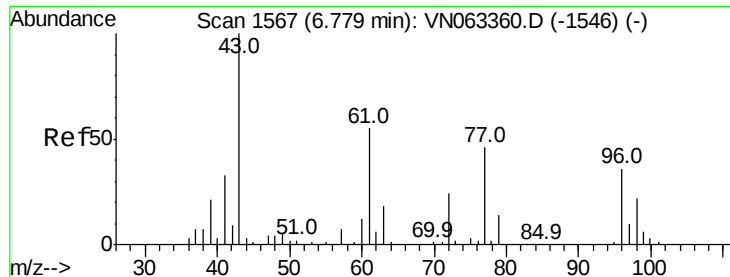
Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

100 0.0 2.1 6.3#





#27

cis-1,2-Dichloroethene

Concen: 0.581 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200921

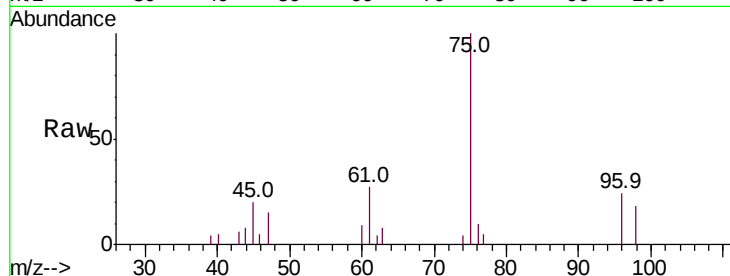
Tot Ion: 96 Resp: 1597

Ion Ratio Lower Upper

96 100

61 126.0 0.0 319.6

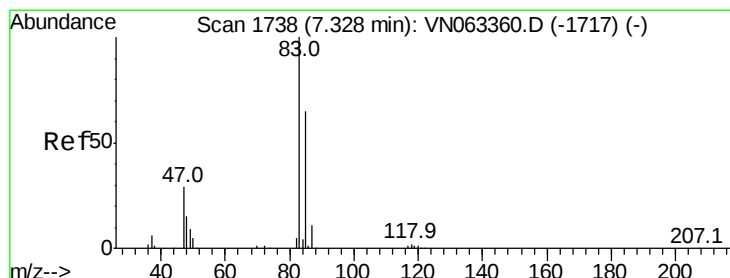
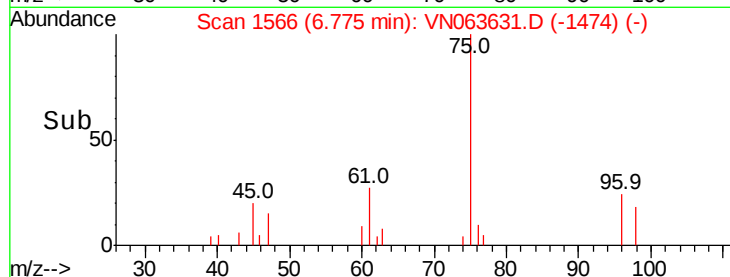
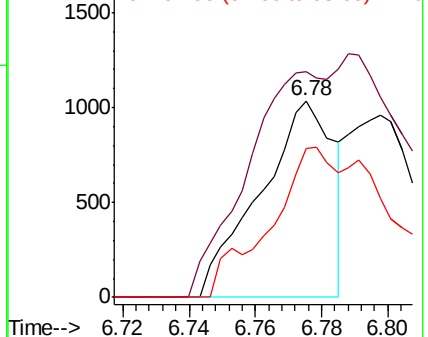
98 69.0 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#30

Chloroform

Concen: 0.325 ug/l

RT: 7.33 min Scan# 1740

Delta R.T. 0.01 min

Lab File: VN063631.D

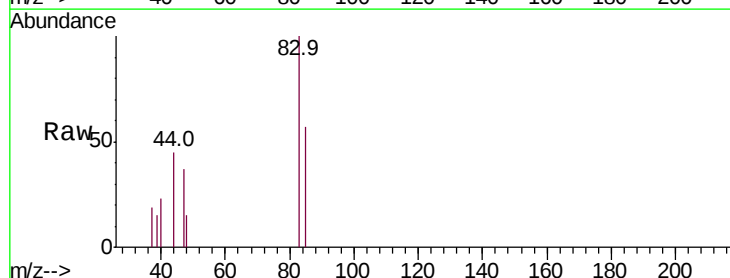
Acq: 24 Sep 2020 16:16

Tgt Ion: 83 Resp: 1574

Ion Ratio Lower Upper

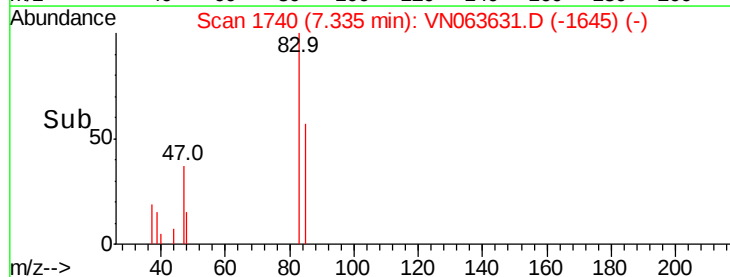
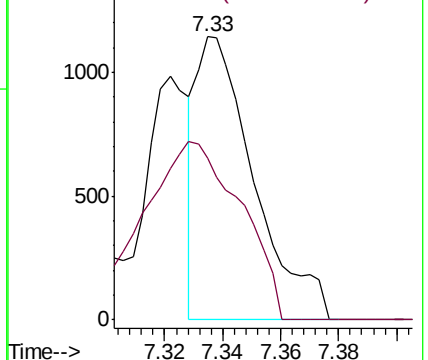
83 100

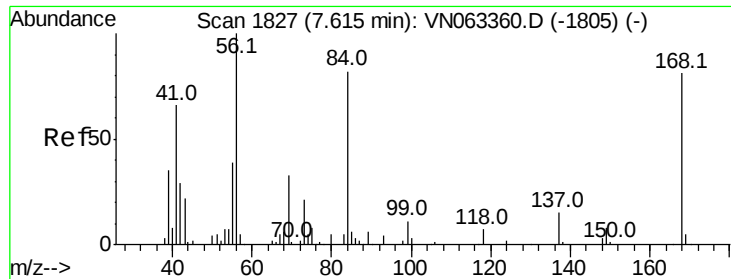
85 57.2 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

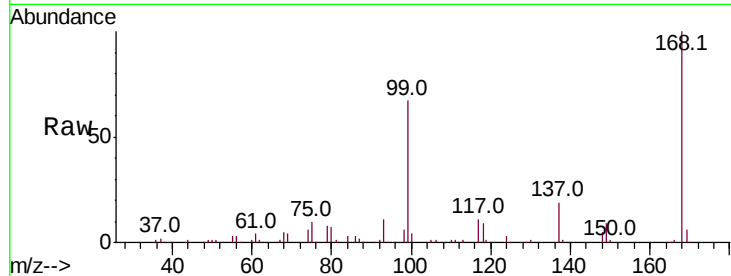




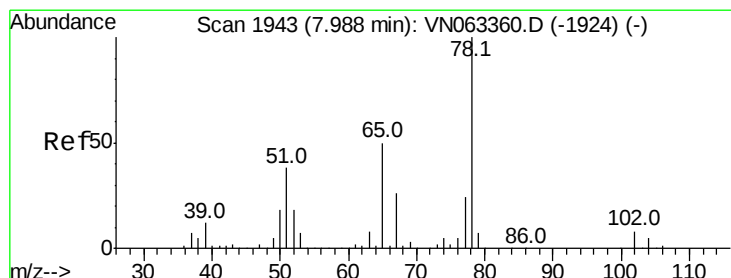
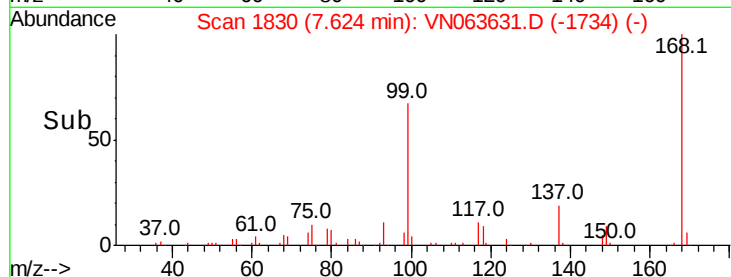
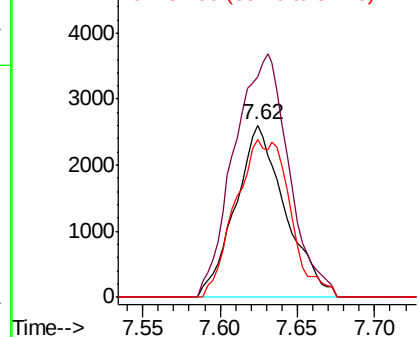
#31
Cyclohexane
Concen: 1.276 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063631.D
Acq: 24 Sep 2020 16:16

Instrument :
MSVOA_N
ClientSampleId :
RE103D3-20200921

Tot Ion: 56 Resp: 5829
Ion Ratio Lower Upper
56 100
69 127.9 26.1 39.1#
84 91.3 65.4 98.2

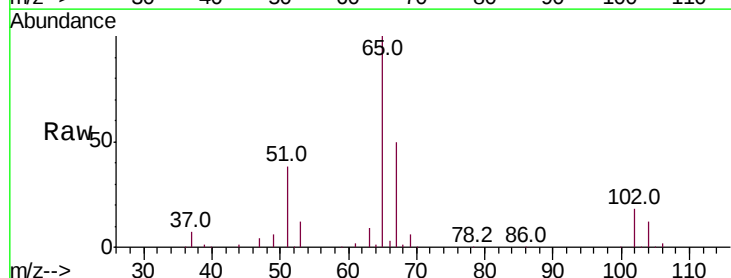


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

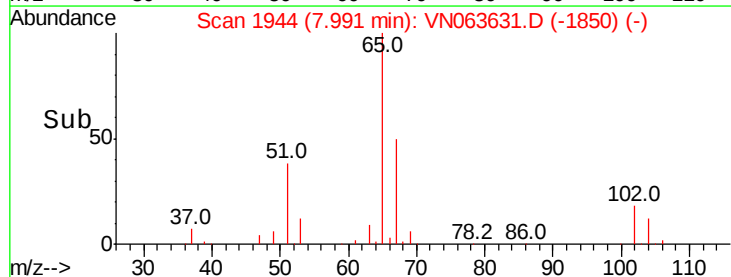
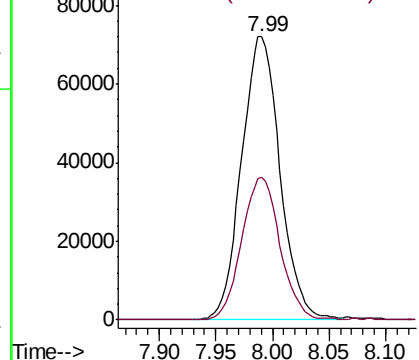


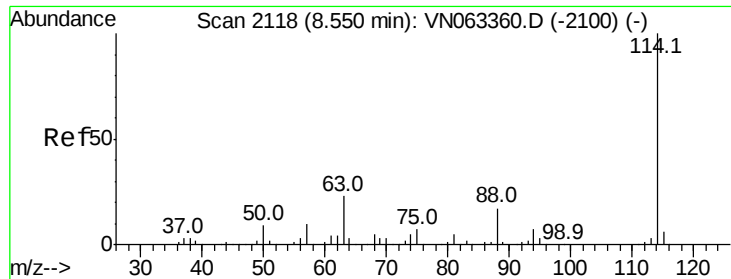
#33
1,2-Dichloroethane-d4
Concen: 51.557 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063631.D
Acq: 24 Sep 2020 16:16

Tgt Ion: 65 Resp: 170542
Ion Ratio Lower Upper
65 100
67 50.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

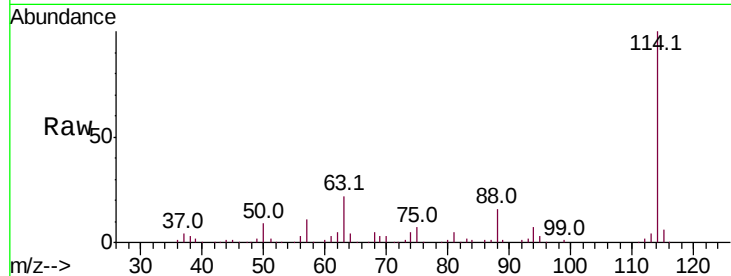




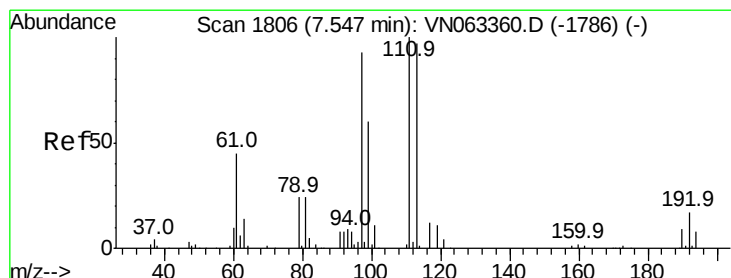
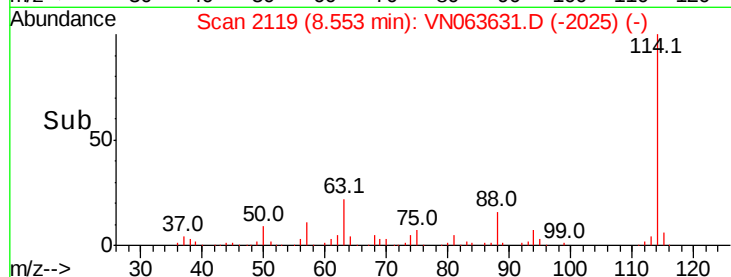
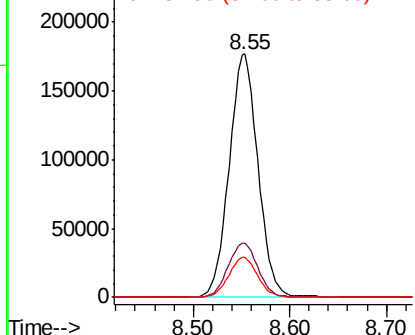
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063631.D
 Acq: 24 Sep 2020 16:16

Instrument :
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 RE103D3-20200921

Tot Ion:114 Resp: 366384
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 46.4
 88 16.5 0.0 33.2

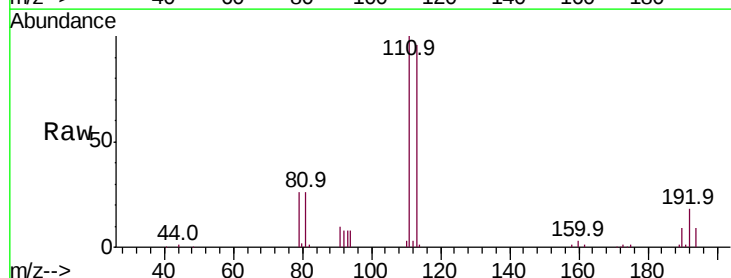


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

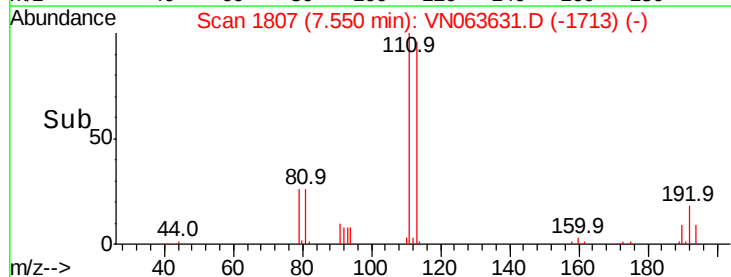
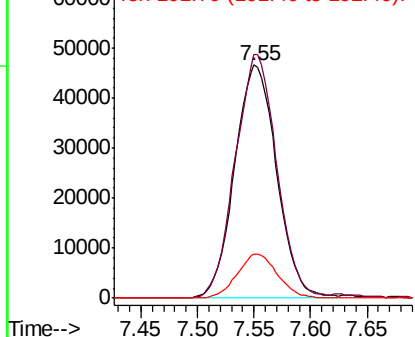


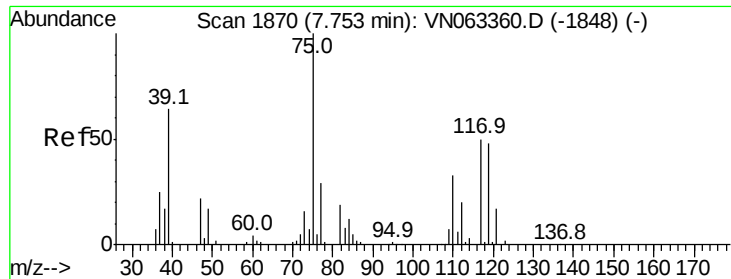
#35
 Dibromofluoromethane
 Concen: 47.497 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063631.D
 Acq: 24 Sep 2020 16:16

Tgt Ion:113 Resp: 120471
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 18.1 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

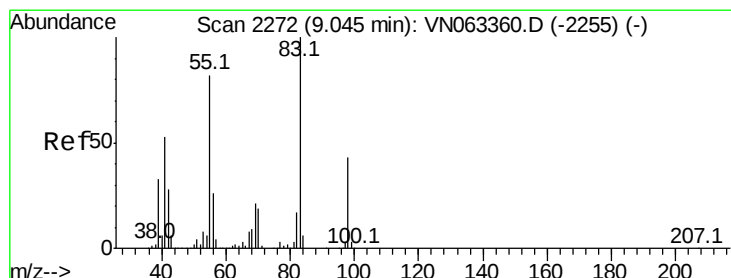
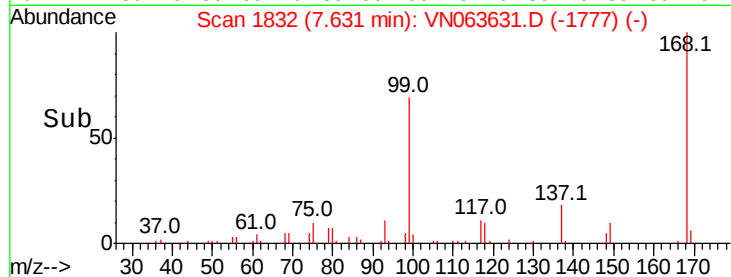
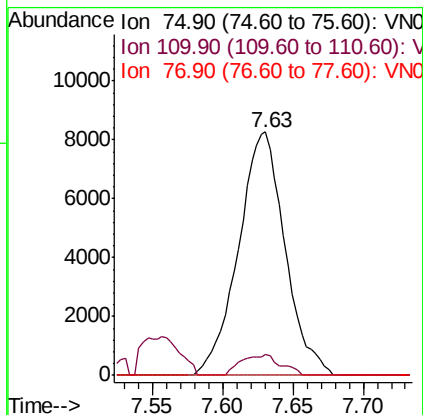
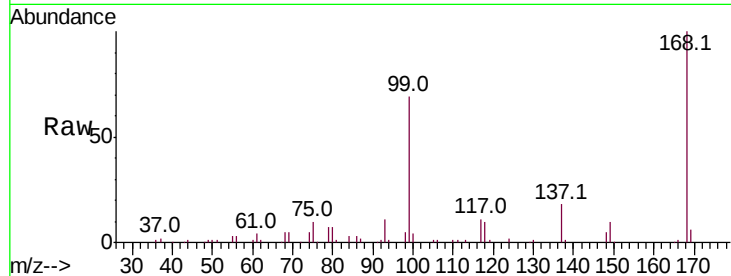




#36
 1,1-Dichloropropene
 Concen: 4.893 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063631.D
 Acq: 24 Sep 2020 16:16

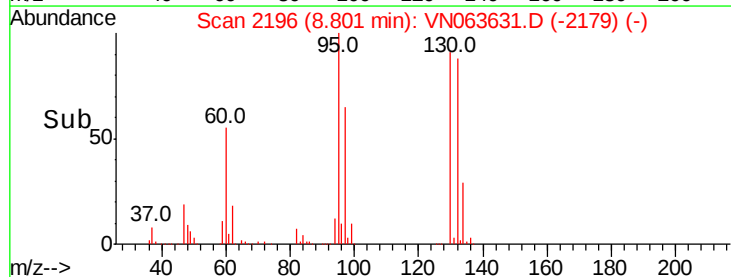
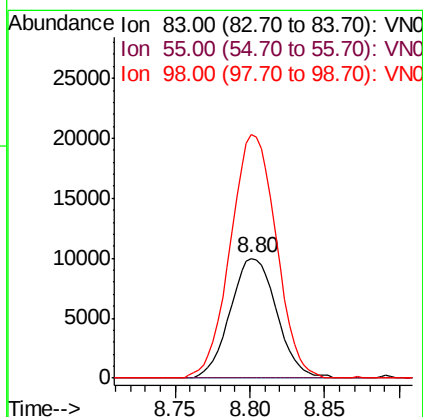
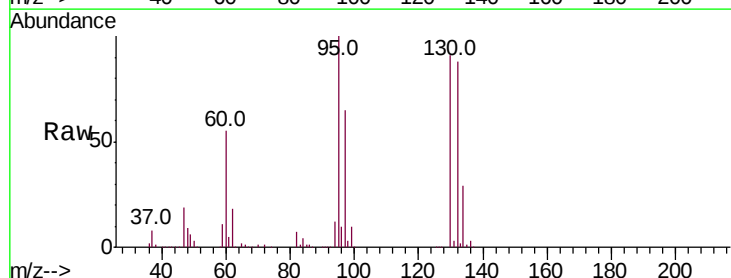
Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200921

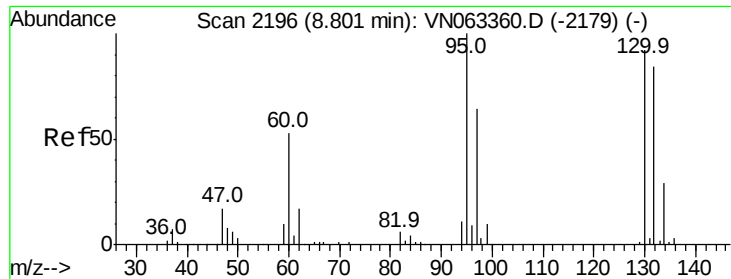
Tot Ion: 75 Resp: 19097
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.5 49.5#
 77 0.0 24.6 36.8#



#39
 Methylcyclohexane
 Concen: 5.100 ug/l
 RT: 8.80 min Scan# 2196
 Delta R.T. -0.24 min
 Lab File: VN063631.D
 Acq: 24 Sep 2020 16:16

Tgt Ion: 83 Resp: 21606
 Ion Ratio Lower Upper
 83 100
 55 0.0 65.5 98.3#
 98 203.2 34.2 51.4#





#44

Trichloroethene

Concen: 565.524 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

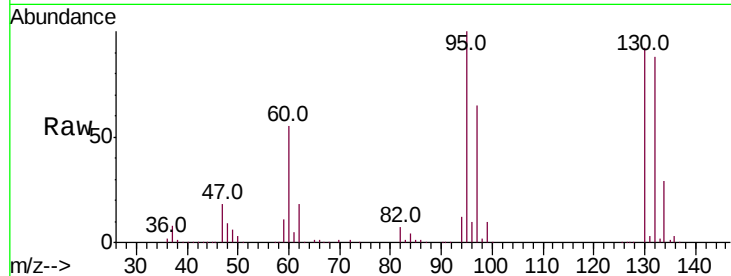
RE103D3-20200921

Tot Ion:130 Resp: 1528366

Ion Ratio Lower Upper

130 100

95 108.1 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

800000

600000

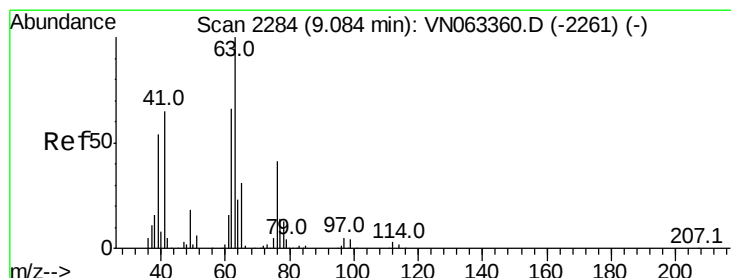
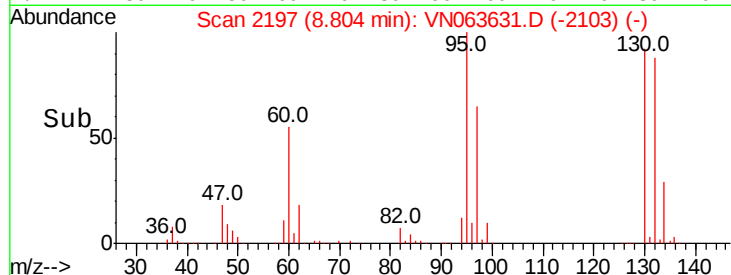
400000

200000

0

8.70 8.80 8.90

Time-->



#45

1,2-Dichloropropane

Concen: 1.472 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.28 min

Lab File: VN063631.D

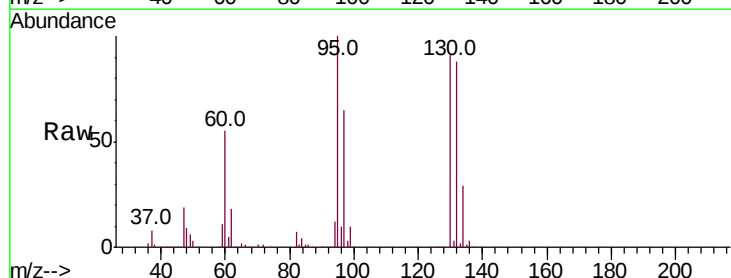
Acq: 24 Sep 2020 16:16

Tgt Ion: 63 Resp: 4467

Ion Ratio Lower Upper

63 100

65 346.6 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

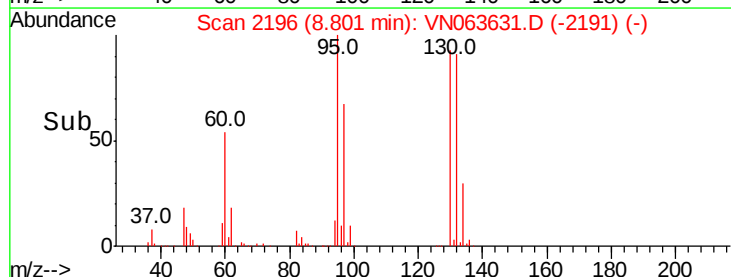
10000

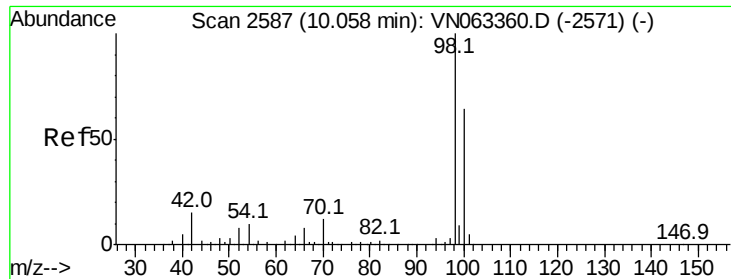
5000

0

8.78 8.80 8.82 8.84

Time-->





#50

Toluene-d8

Concen: 50.339 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

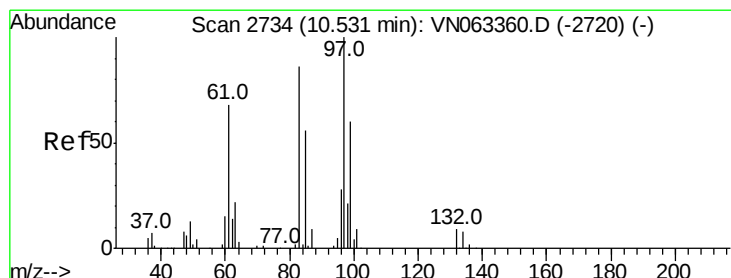
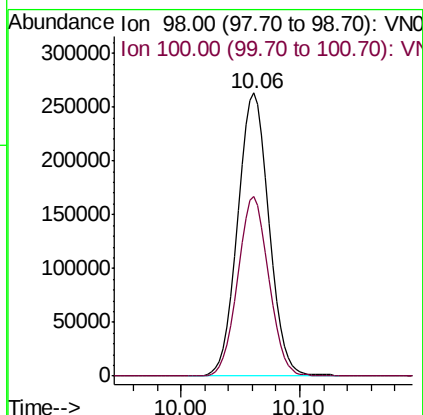
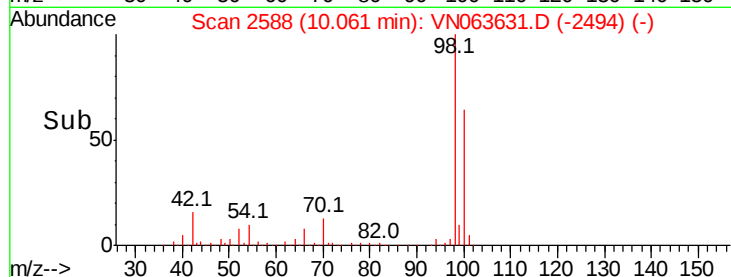
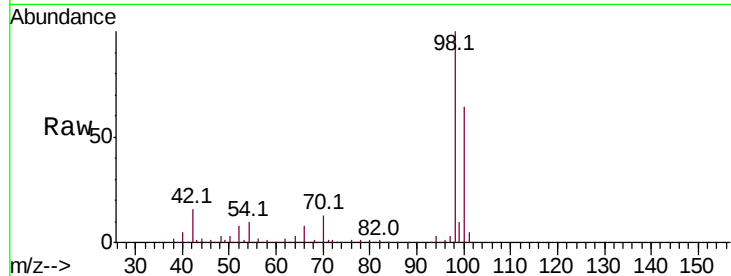
RE103D3-20200921

Tot Ion: 98 Resp: 480096

Ion Ratio Lower Upper

98 100

100 63.1 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.242 ug/l

RT: 10.53 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Tgt Ion: 97 Resp: 645

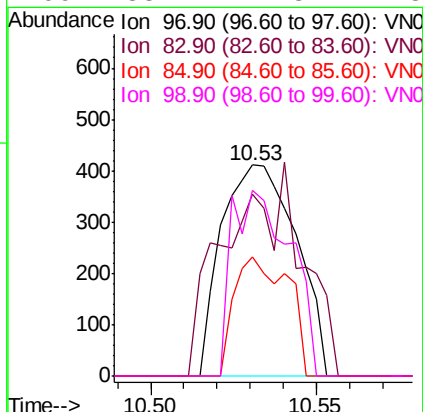
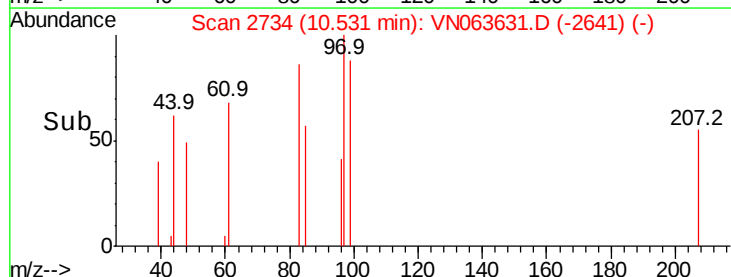
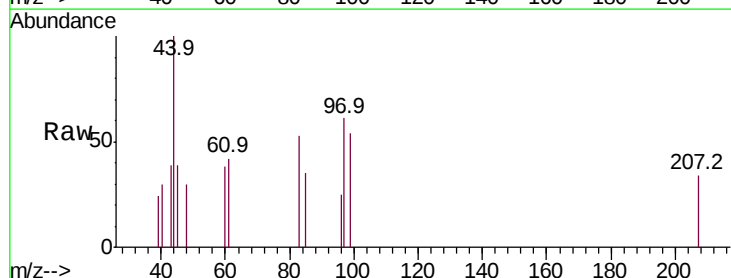
Ion Ratio Lower Upper

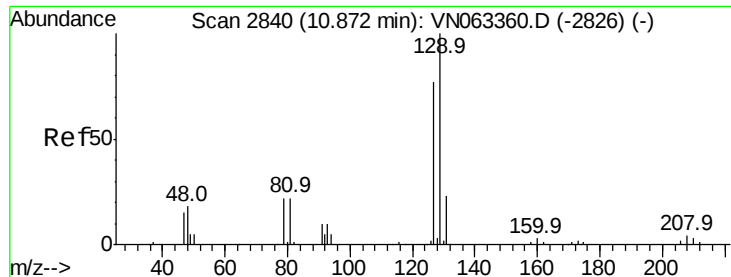
97 100

83 86.1 68.9 103.3

85 56.7 44.8 67.2

99 88.1 47.8 71.8#





#60

Dibromochloromethane

Concen: 0.953 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

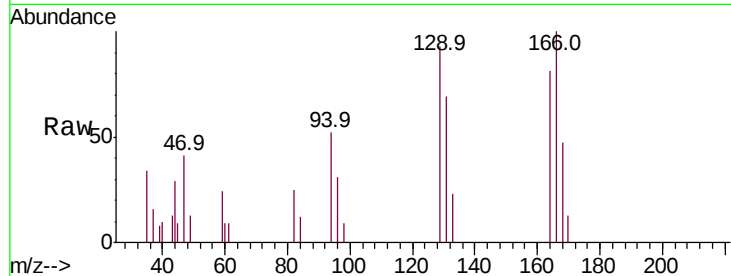
RE103D3-20200921

Tot Ion:129 Resp: 2865

Ion Ratio Lower Upper

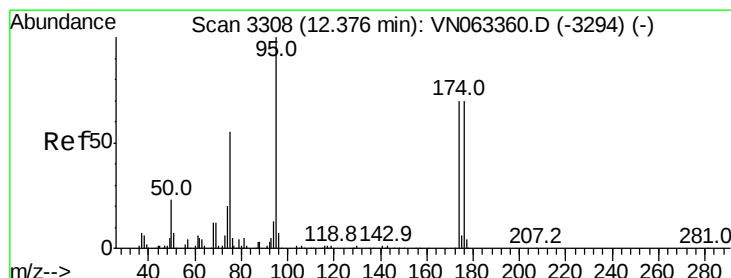
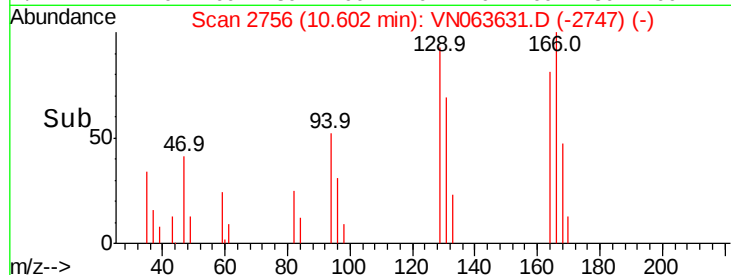
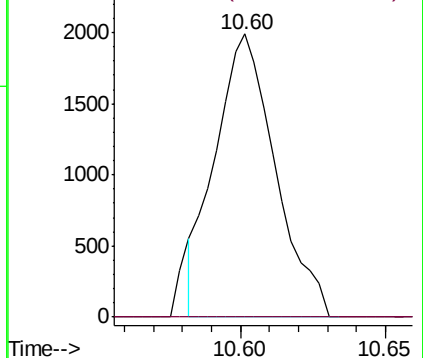
129 100

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: 52.238 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

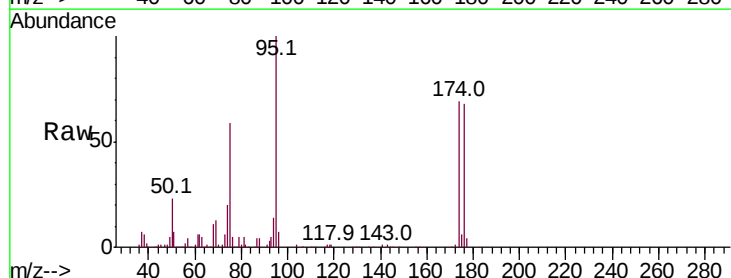
Tgt Ion: 95 Resp: 182634

Ion Ratio Lower Upper

95 100

174 70.9 0.0 140.8

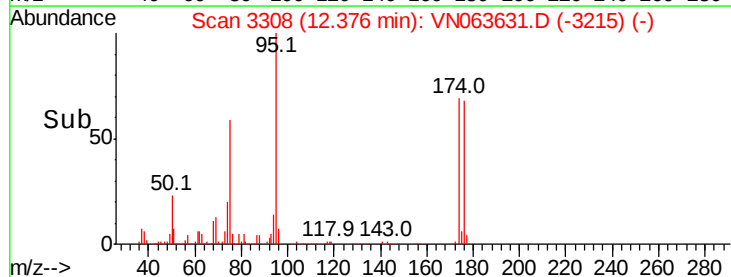
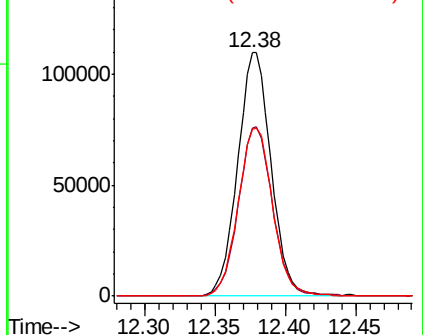
176 71.0 0.0 137.6

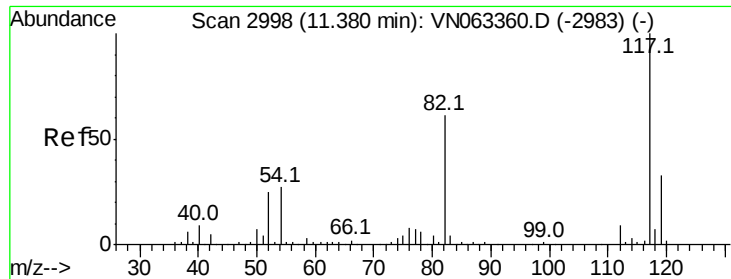


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

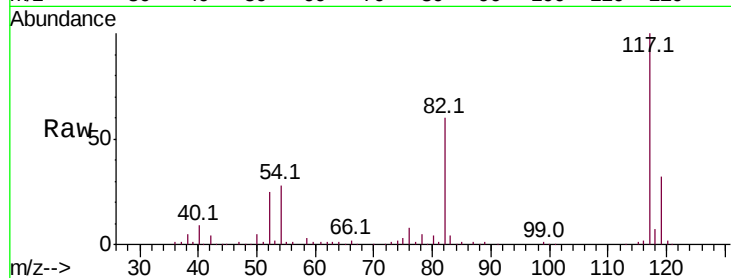




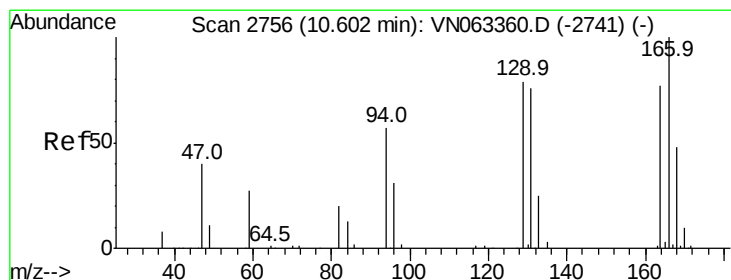
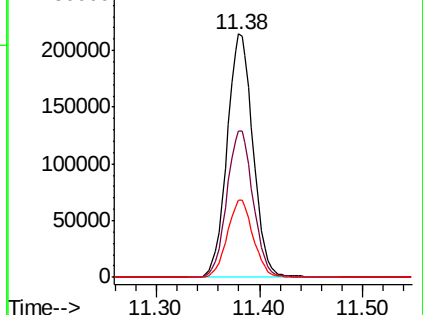
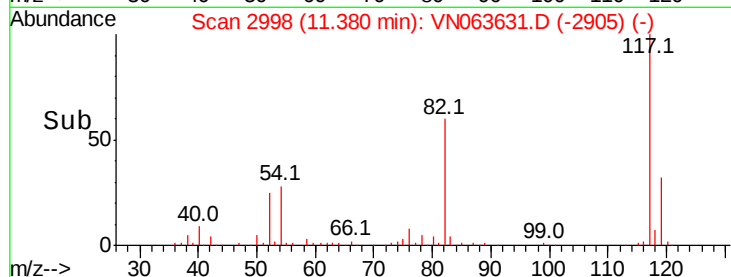
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063631.D
Acq: 24 Sep 2020 16:16

Instrument :
MSVOA_N
ClientSampleId :
RE103D3-20200921

Tot Ion:117 Resp: 375527
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 31.6 26.2 39.4

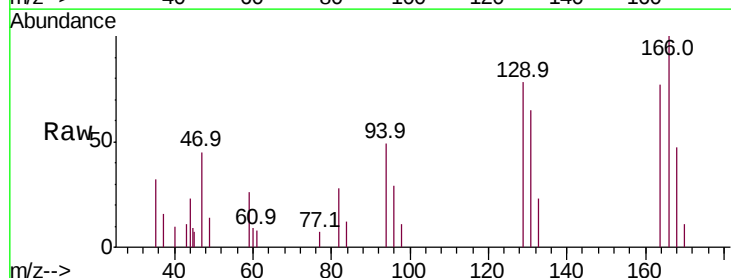


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

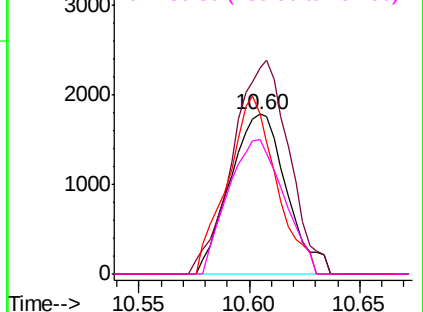
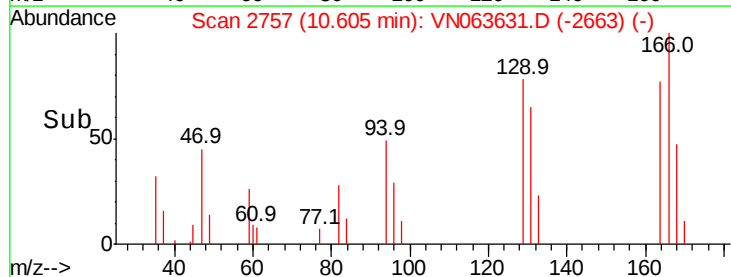


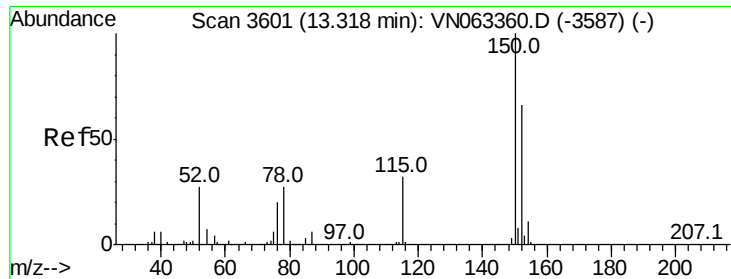
#64
Tetrachloroethene
Concen: 1.241 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063631.D
Acq: 24 Sep 2020 16:16

Tgt Ion:164 Resp: 3173
Ion Ratio Lower Upper
164 100
166 129.1 103.4 155.0
129 100.5 81.8 122.6
131 84.1 78.2 117.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200921

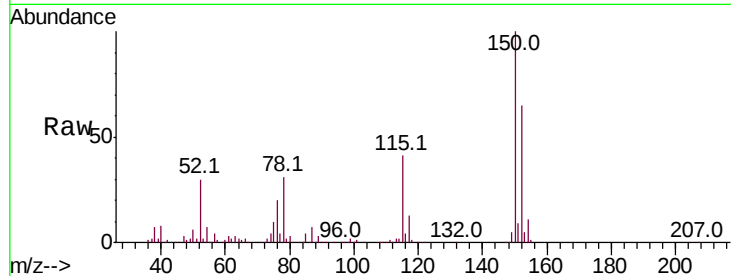
Tot Ion:152 Resp: 157765

Ion Ratio Lower Upper

152 100

115 64.0 32.2 96.6

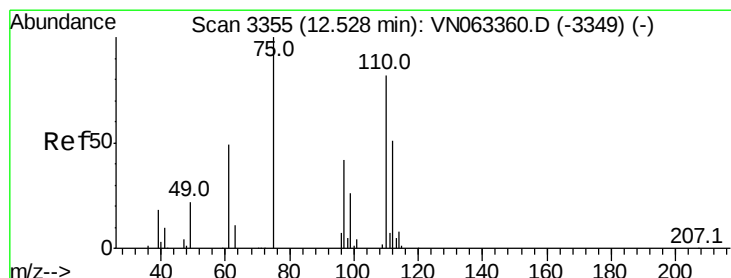
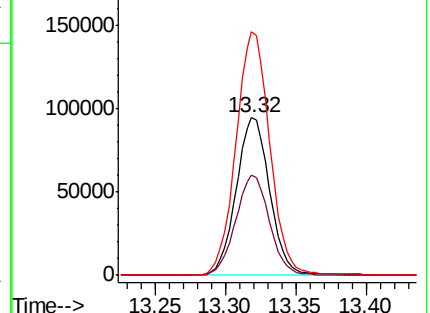
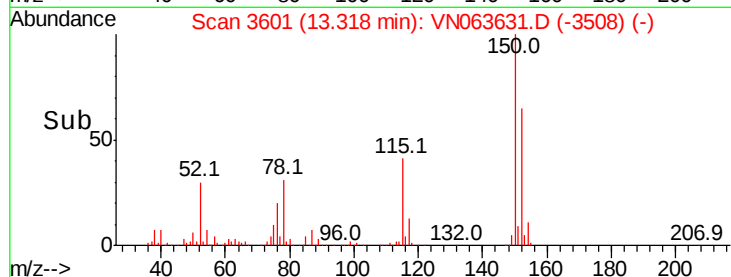
150 156.8 0.0 343.4



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: 27.238 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063631.D

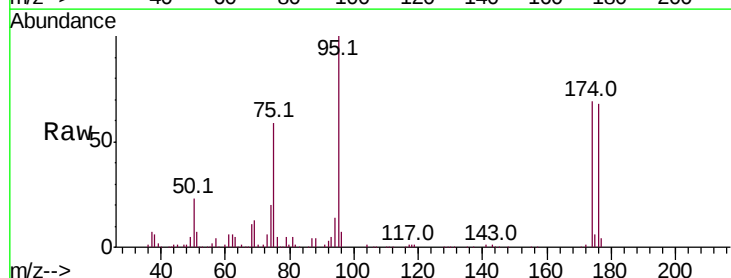
Acq: 24 Sep 2020 16:16

Tgt Ion: 75 Resp: 106362

Ion Ratio Lower Upper

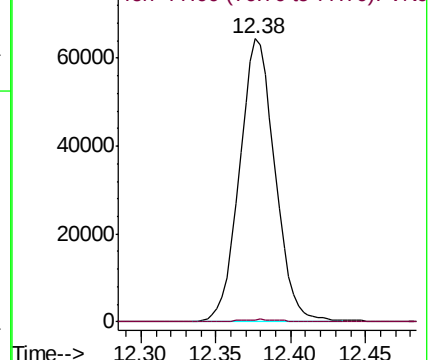
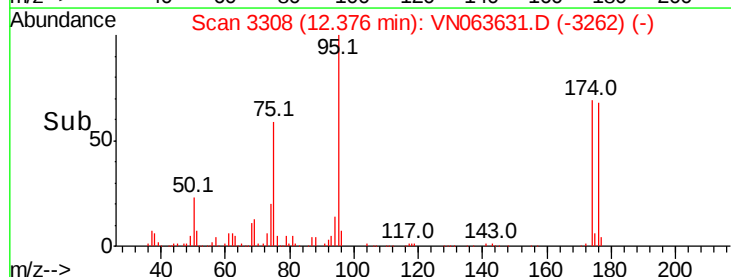
75 100

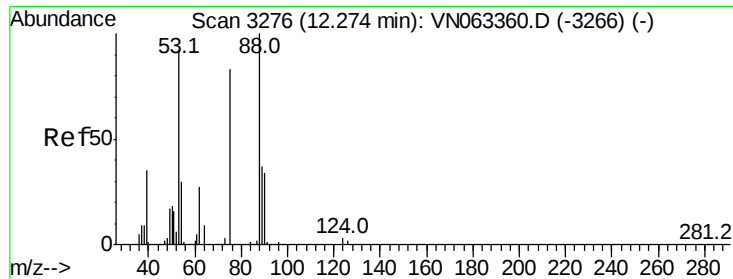
77 1.1 0.0 0.0#



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: 74.676 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063631.D

Acq: 24 Sep 2020 16:16

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200921

Tot Ion: 75 Resp: 106362

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

