

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061788.D
 Acq On : 12 Jun 2020 14:03
 Operator : JC/MD
 Sample : L2988-15DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20200608DL

Quant Time: Jun 13 05:11:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	298212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	505465	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	495107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	218374	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	166933	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	7.55	113	145710	56.83	ug/l	0.00
Spiked Amount			Recovery	=	113.66%	
50) Toluene-d8	10.06	98	606820	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.38	95	205982	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

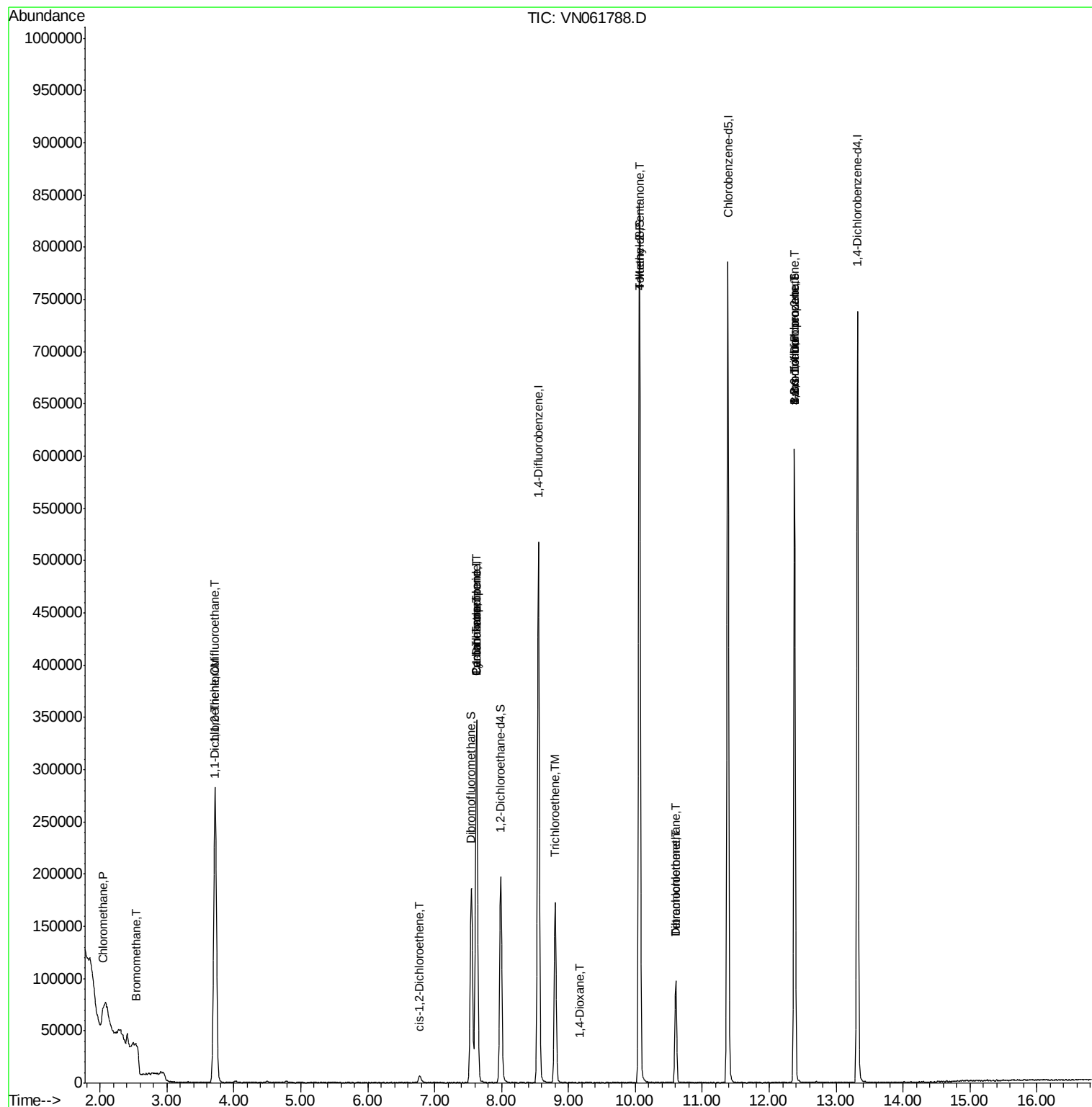
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	752	0.207	ug/l #	78
5) Bromomethane	2.55	94	727	0.254	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.72	101	176894	62.020	ug/l	96
12) 1,1-Dichloroethene	3.70	96	1215	0.399	ug/l #	68
16) Acetone	3.78	43	935	Below Cal		95
20) Methylene Chloride	4.51	84	458	Below Cal	#	59
27) cis-1,2-Dichloroethene	6.78	96	1541	0.396	ug/l	91
31) Cyclohexane	7.62	56	5286	1.056	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	19801	4.425	ug/l #	44
38) Carbon Tetrachloride	7.63	117	27485	6.368	ug/l #	16
44) Trichloroethene	8.80	130	67567	15.924	ug/l	95
49) 1,4-Dioxane	9.17	88	99	2.191	ug/l #	59
51) 4-Methyl-2-Pentanone	10.06	43	2169	0.594	ug/l #	1
60) Dibromochloromethane	10.60	129	20891	5.118	ug/l #	11
64) Tetrachloroethene	10.60	164	24305	5.215	ug/l	99
71) Bromoform	12.38	173	1862	0.631	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	100846	25.396	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	100846	64.945	ug/l #	15

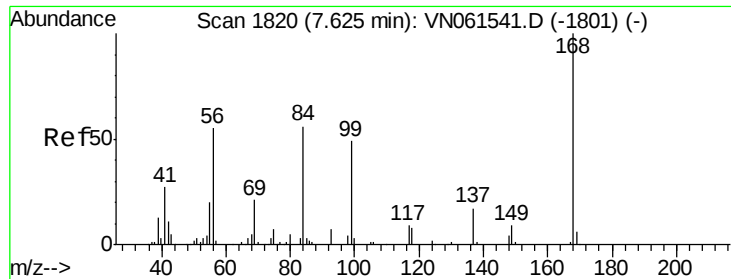
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

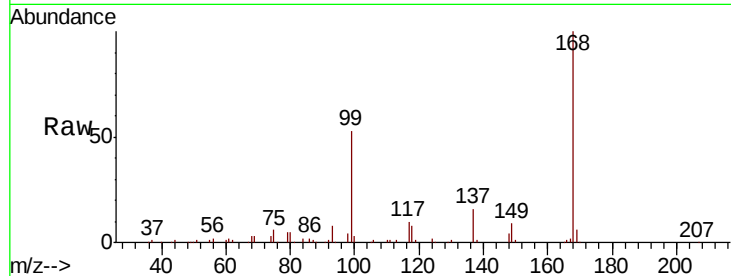
RE134D3-20200608DL

Tot Ion:168 Resp: 298212

Ion Ratio Lower Upper

168 100

99 53.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

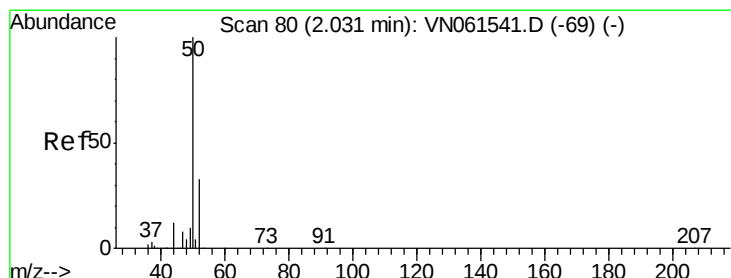
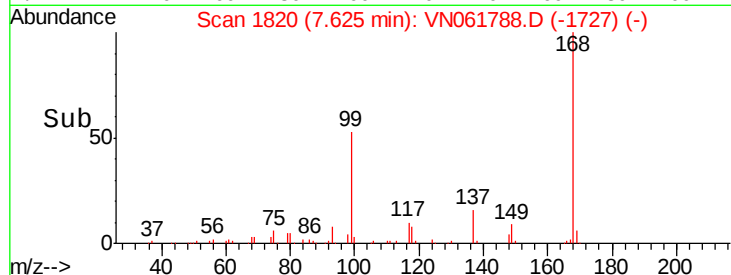
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.207 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061788.D

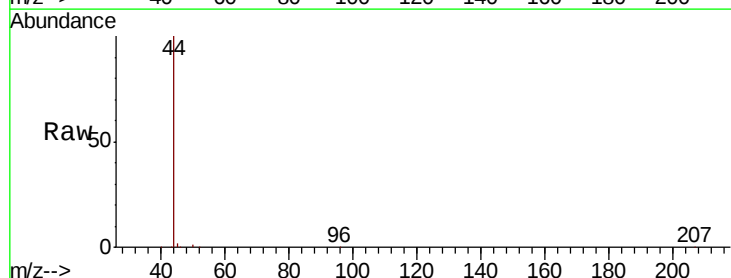
Acq: 12 Jun 2020 14:03

Tgt Ion: 50 Resp: 752

Ion Ratio Lower Upper

50 100

52 45.9 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

400

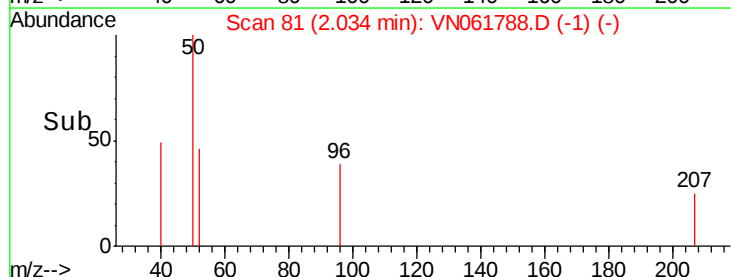
300

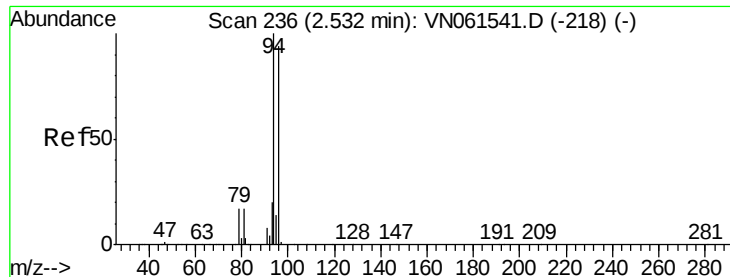
200

100

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.254 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

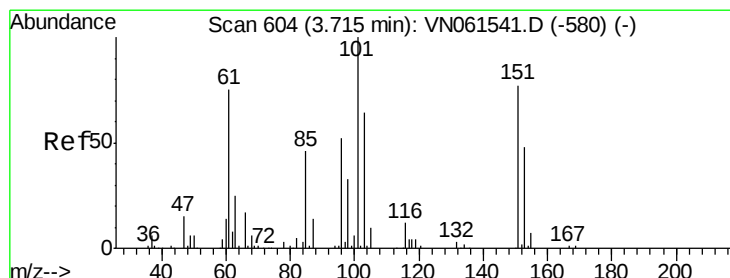
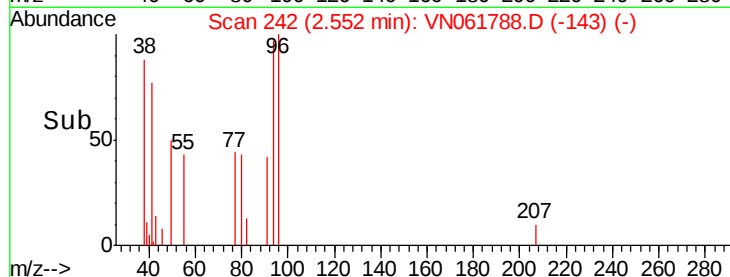
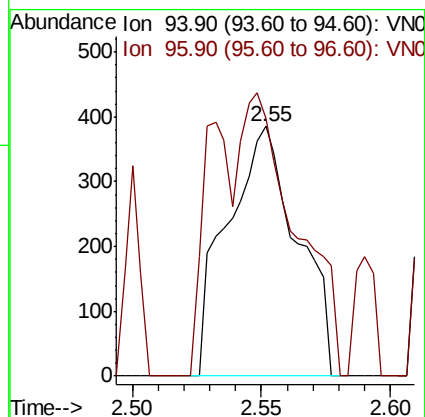
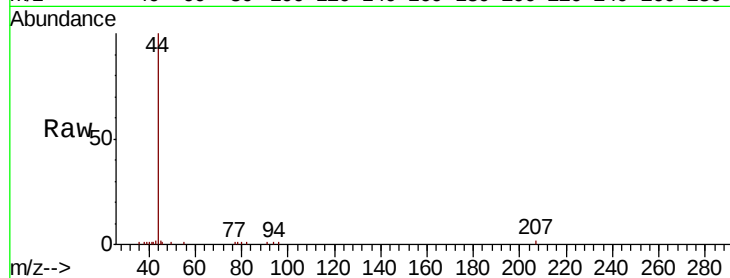
RE134D3-20200608DL

Tot Ion: 94 Resp: 727

Ion Ratio Lower Upper

94 100

96 103.4 74.8 112.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 62.020 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

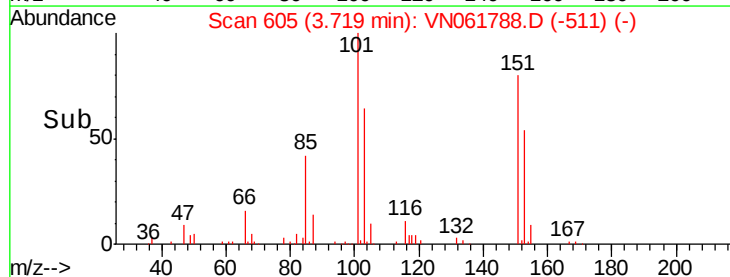
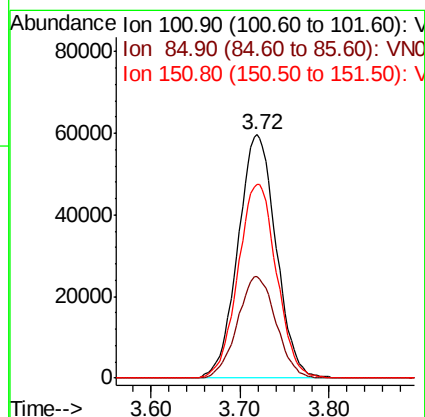
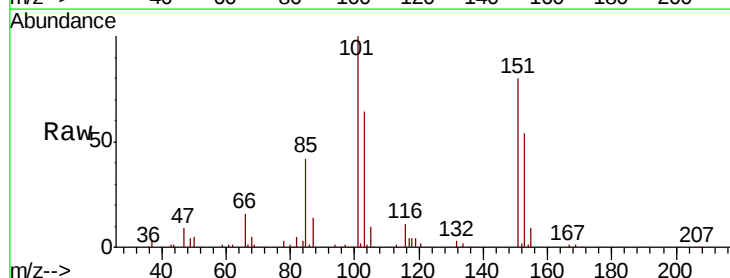
Tgt Ion: 101 Resp: 176894

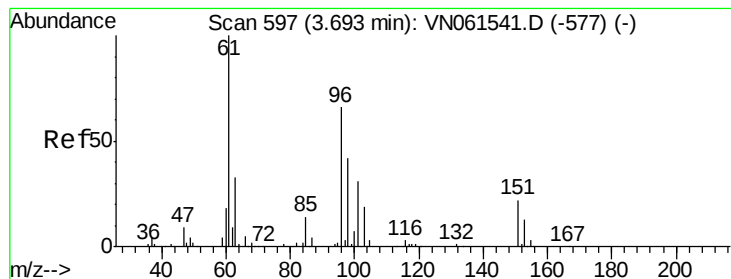
Ion Ratio Lower Upper

101 100

85 42.2 35.2 52.8

151 80.7 61.0 91.6





#12

1,1-Dichloroethene

Concen: 0.399 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.01 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200608DL

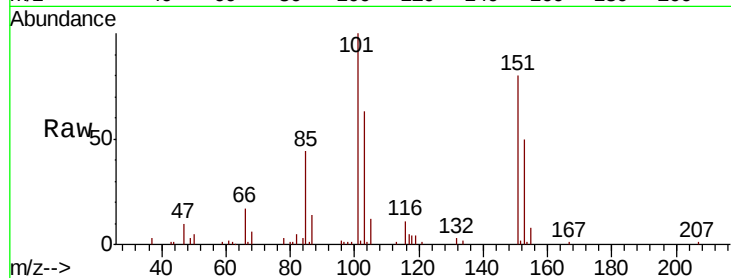
Tot Ion: 96 Resp: 1215

Ion Ratio Lower Upper

96 100

61 95.0 120.5 180.7#

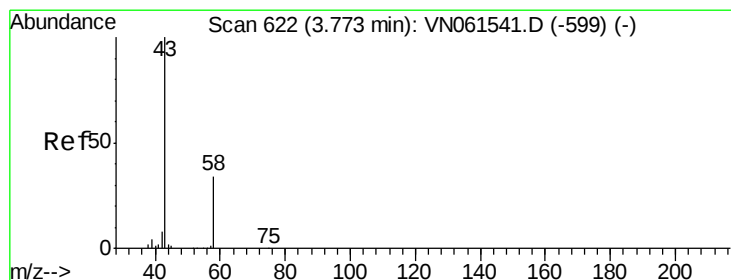
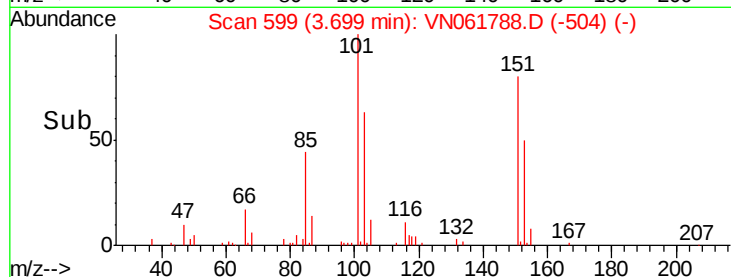
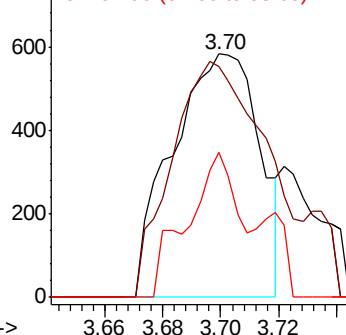
98 59.9 50.8 76.2



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: Below Cal

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061788.D

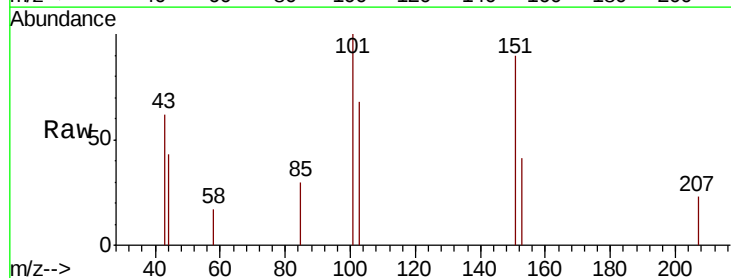
Acq: 12 Jun 2020 14:03

Tgt Ion: 43 Resp: 935

Ion Ratio Lower Upper

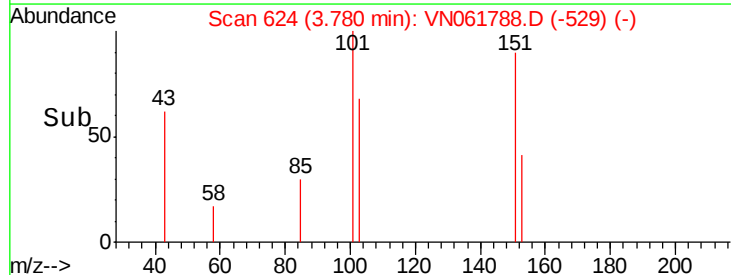
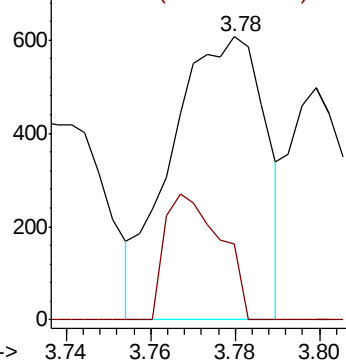
43 100

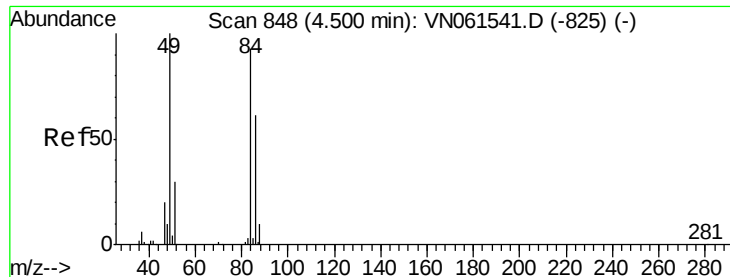
58 37.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 851

Delta R.T. 0.01 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200608DL

Tot Ion: 84 Resp: 458

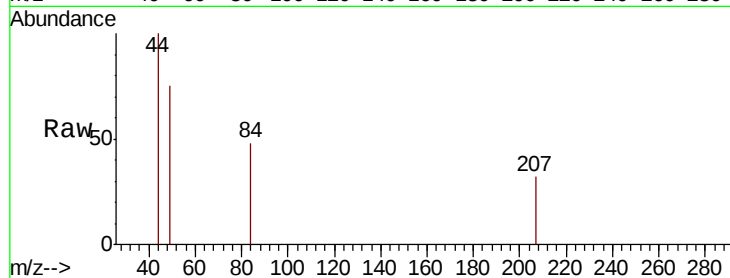
Ion Ratio Lower Upper

84 100

49 97.4 85.8 128.8

51 0.0 26.2 39.2#

86 0.0 52.6 78.8#

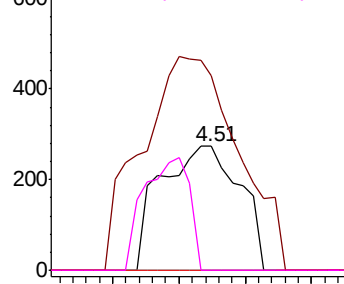


Abundance Ion 83.90 (83.60 to 84.60): VN0

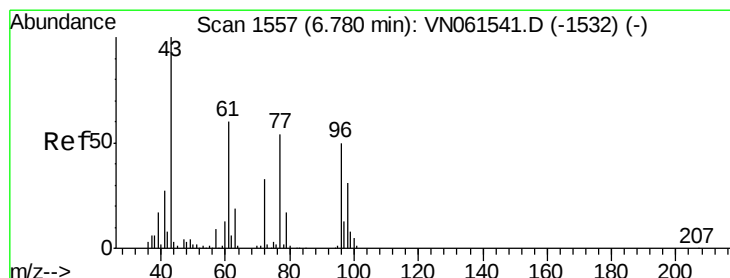
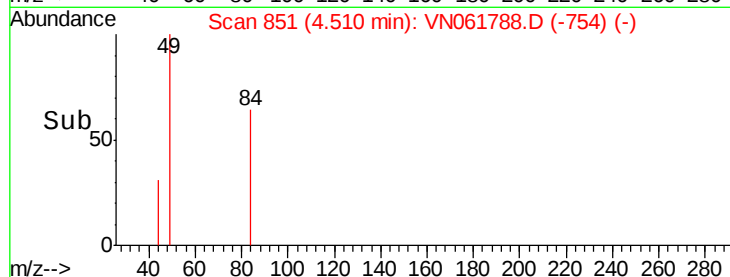
Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.396 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

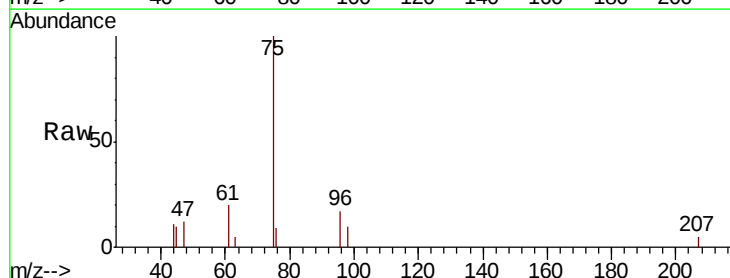
Tgt Ion: 96 Resp: 1541

Ion Ratio Lower Upper

96 100

61 114.1 0.0 252.2

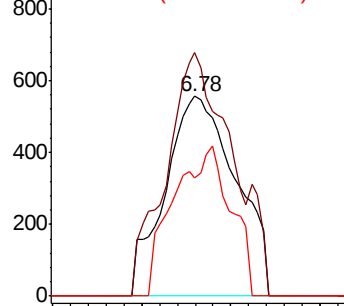
98 60.9 0.0 129.2



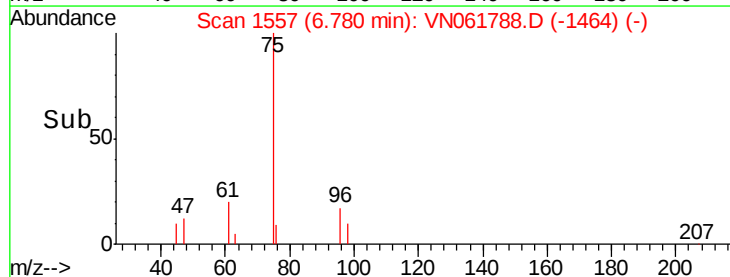
Abundance Ion 95.90 (95.60 to 96.60): VN0

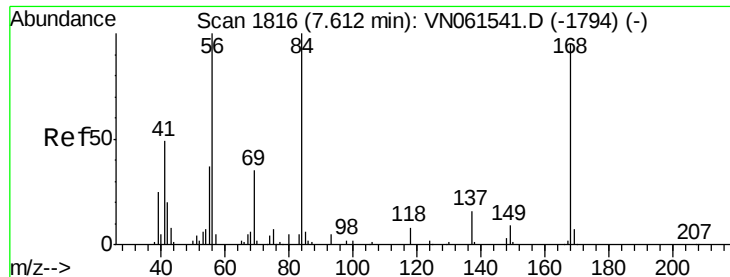
Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



Time-->

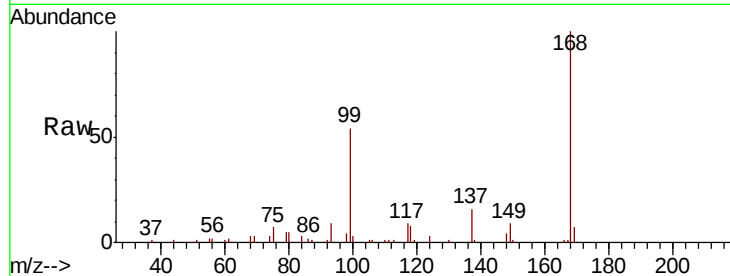




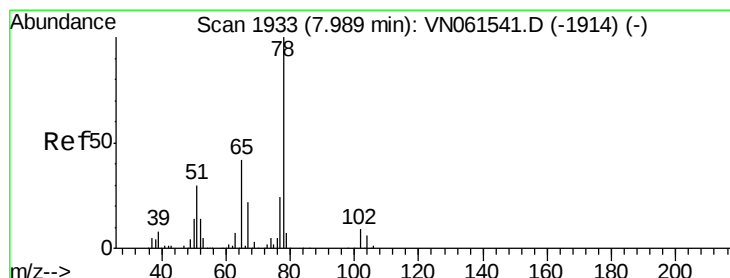
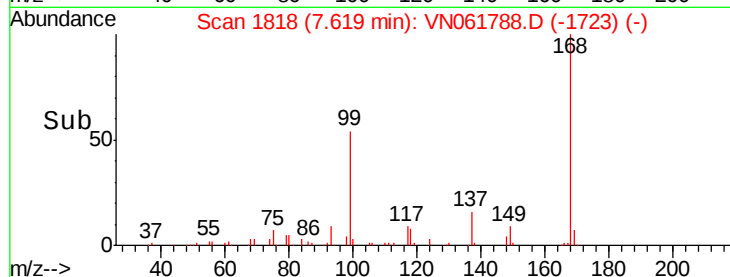
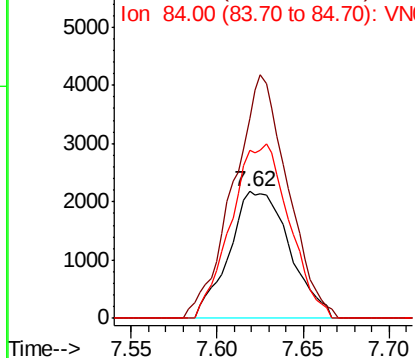
#31
Cyclohexane
Concen: 1.056 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

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RE134D3-20200608DL

Tot Ion: 56 Resp: 5286
Ion Ratio Lower Upper
56 100
69 157.7 27.8 41.8#
84 132.6 79.9 119.9#

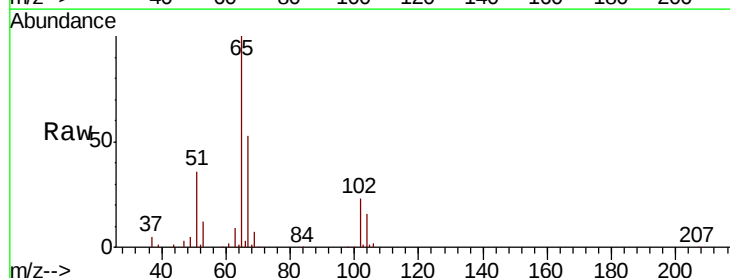


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

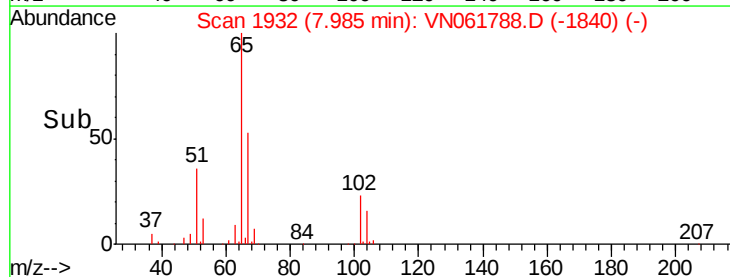
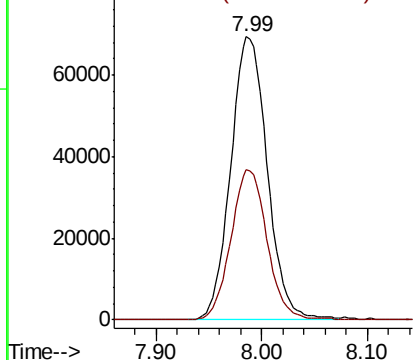


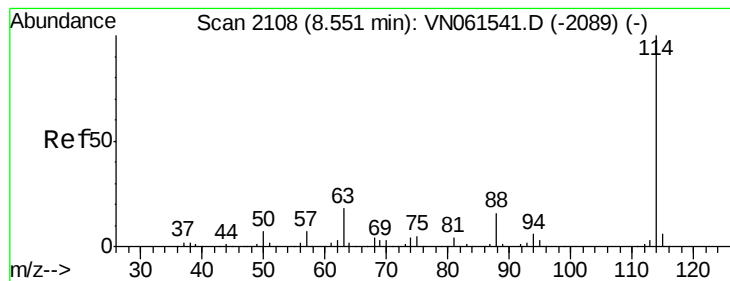
#33
1,2-Dichloroethane-d4
Concen: 46.984 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

Tgt Ion: 65 Resp: 166933
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
80000 Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200608DL

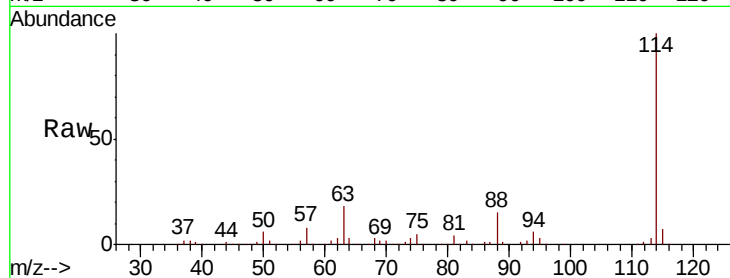
Tot Ion:114 Resp: 505465

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.8

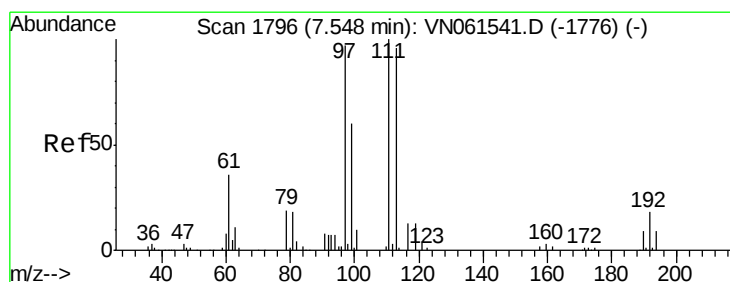
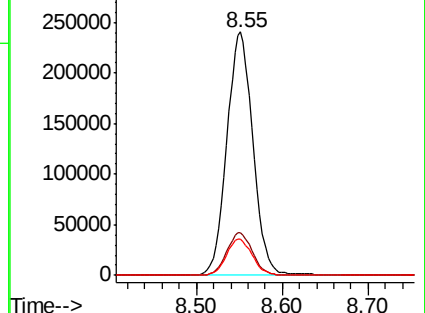
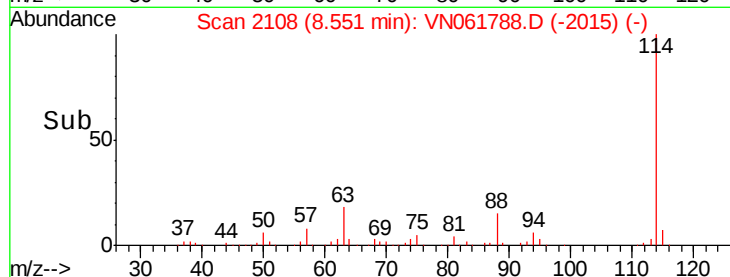
88 15.0 0.0 31.0



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: 56.826 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

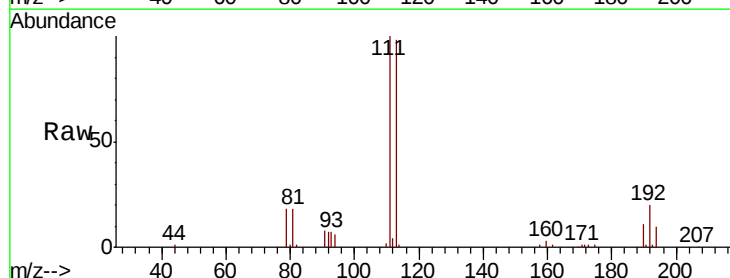
Tgt Ion:113 Resp: 145710

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.0

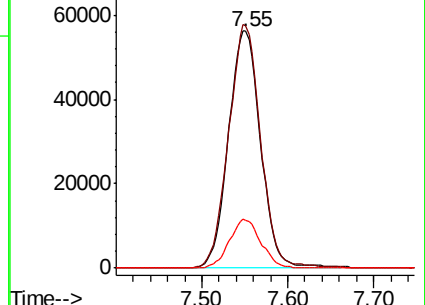
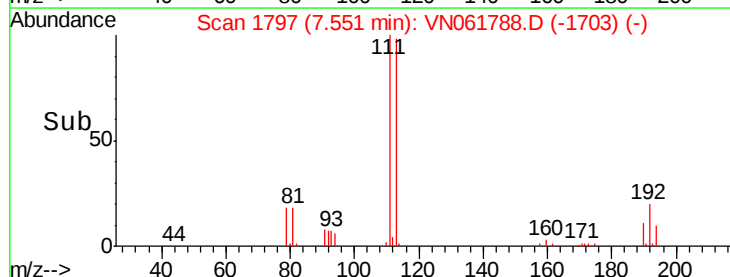
192 20.1 15.4 23.2

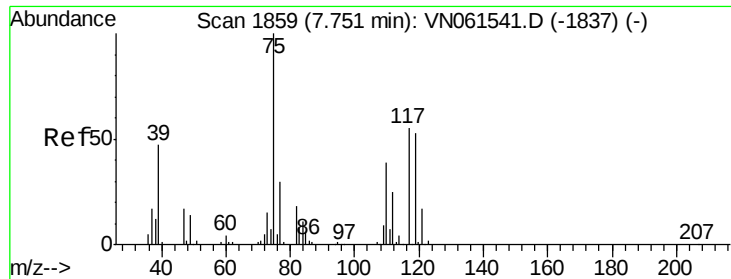


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

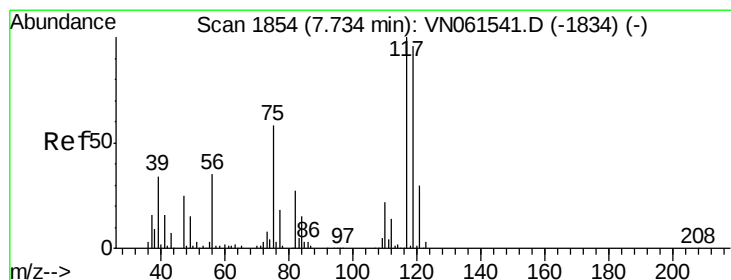
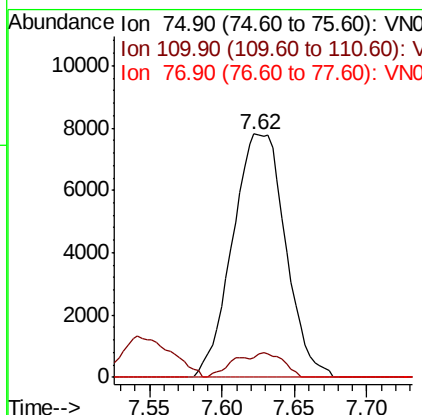
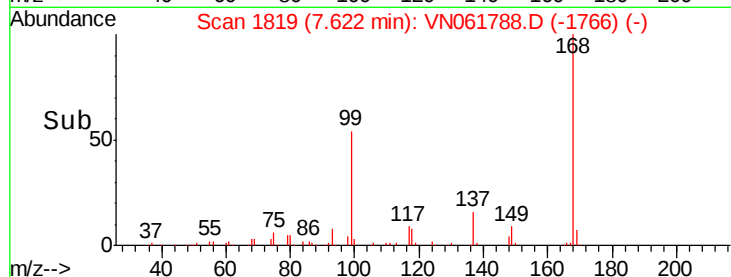
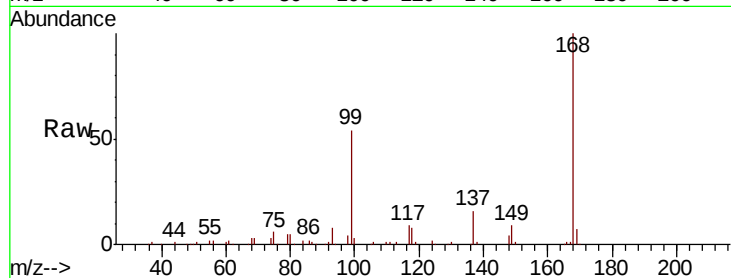




#36
 1,1-Dichloropropene
 Concen: 4.425 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061788.D
 Acq: 12 Jun 2020 14:03

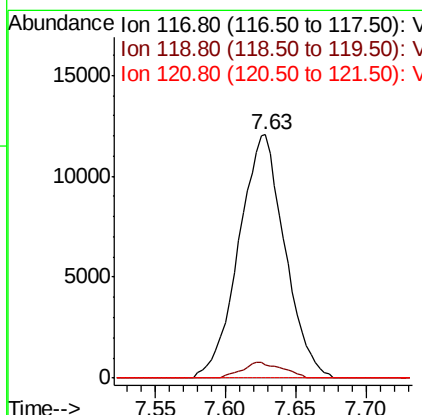
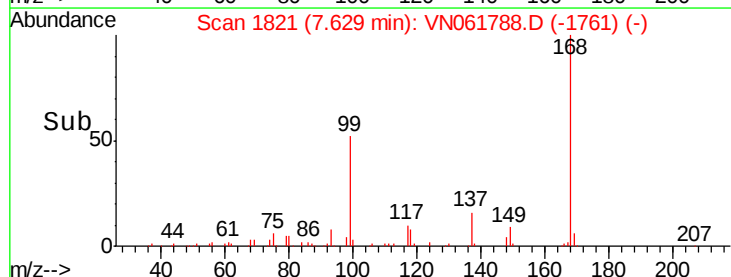
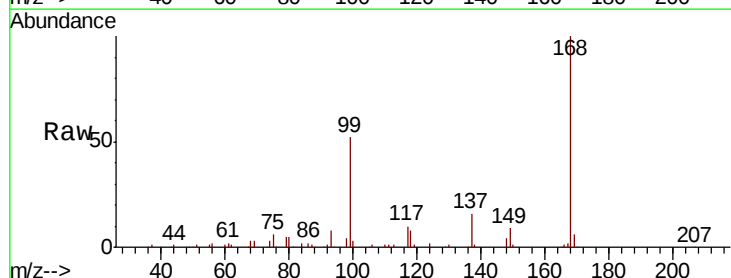
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20200608DL

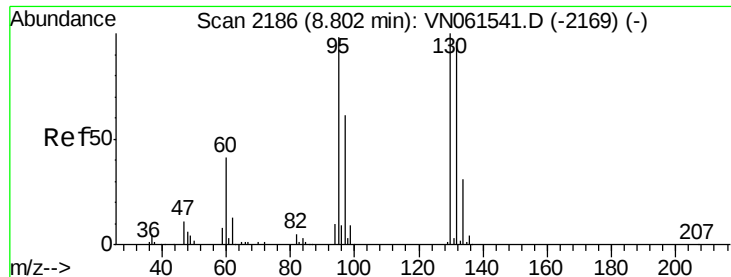
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.0	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.368 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN061788.D
 Acq: 12 Jun 2020 14:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.5	114.7#
121	0.0	24.1	36.1#





#44

Trichloroethene

Concen: 15.924 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

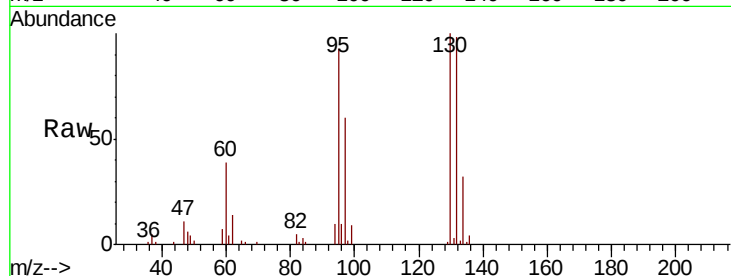
RE134D3-20200608DL

Tot Ion:130 Resp: 67567

Ion Ratio Lower Upper

130 100

95 93.1 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): VN061788.D (-2186) (-)

Ion 94.90 (94.60 to 95.60): VN061788.D (-2186) (-)

8.80

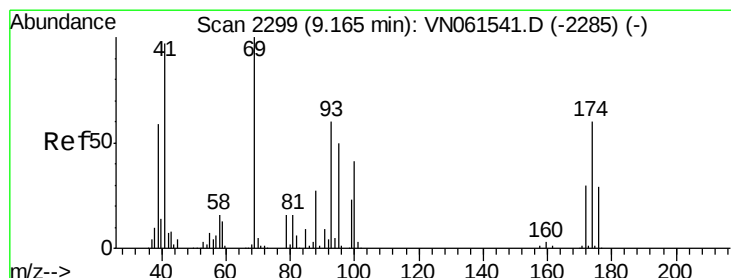
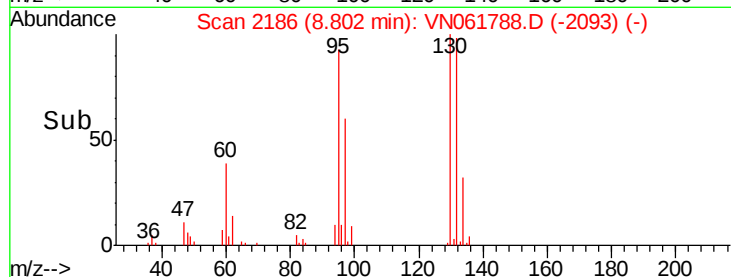
30000

20000

10000

0

Time--> 8.70 8.75 8.80 8.85 8.90



#49

1,4-Dioxane

Concen: 2.191 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. 0.01 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

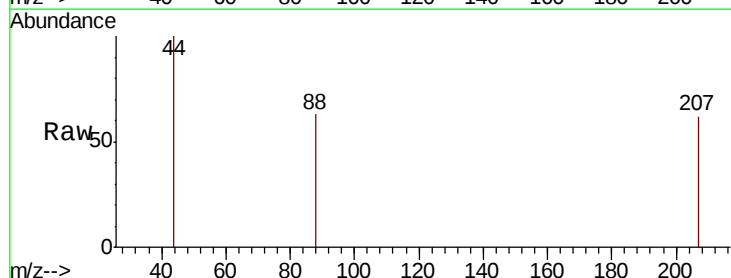
Tgt Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 0.0 23.1 34.7#

58 34.3 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VN061788.D (-2301) (-)

Ion 43.00 (42.70 to 43.70): VN061788.D (-2301) (-)

Ion 58.00 (57.70 to 58.70): VN061788.D (-2301) (-)

9.17

250

200

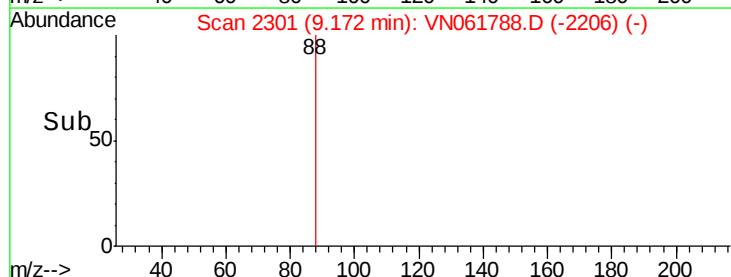
150

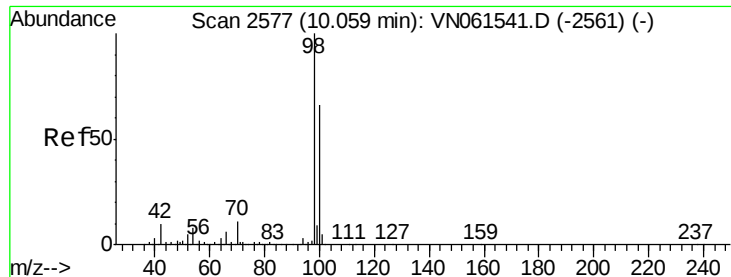
100

50

0

Time--> 9.16 9.17 9.18





#50

Toluene-d8

Concen: 51.068 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

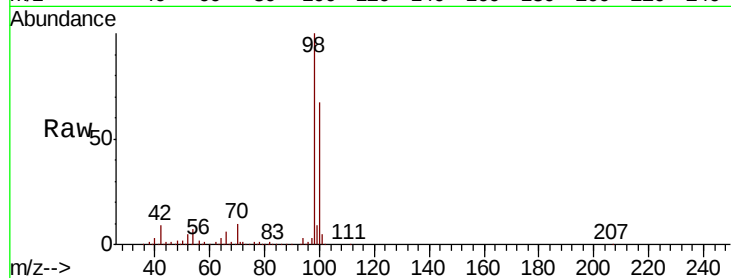
RE134D3-20200608DL

Tot Ion: 98 Resp: 606820

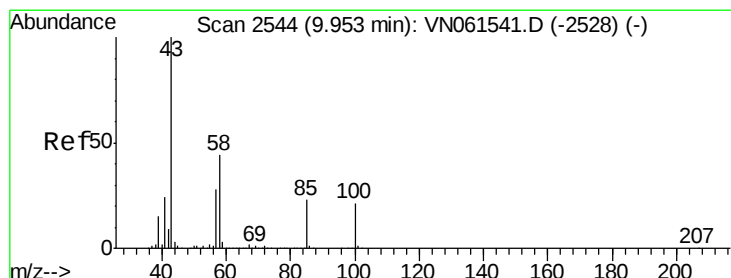
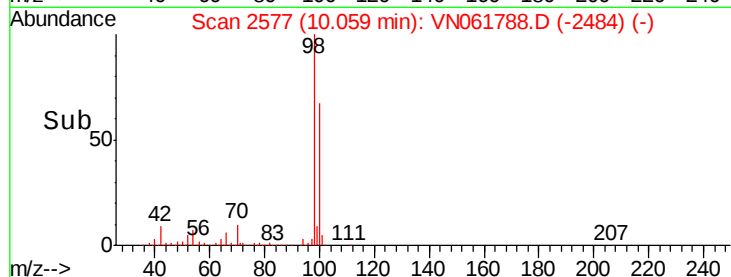
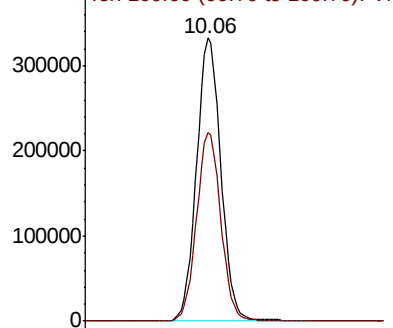
Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



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



#51

4-Methyl-2-Pentanone

Concen: 0.594 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061788.D

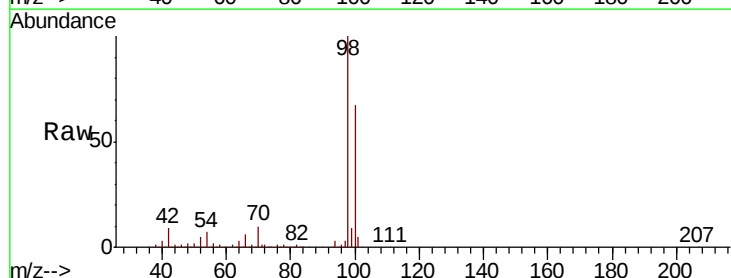
Acq: 12 Jun 2020 14:03

Tgt Ion: 43 Resp: 2169

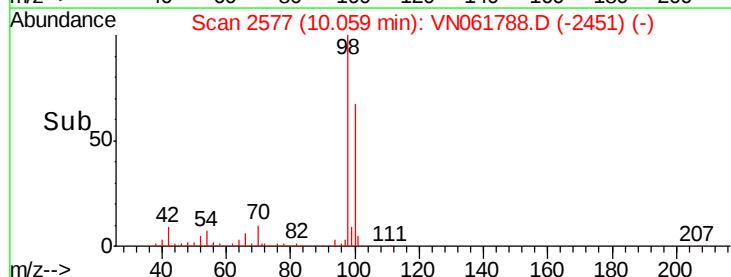
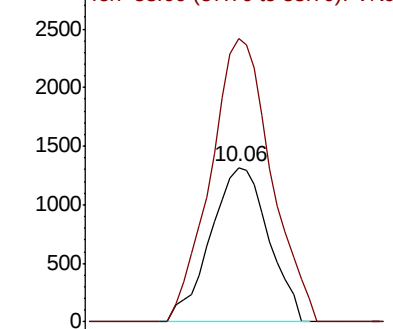
Ion Ratio Lower Upper

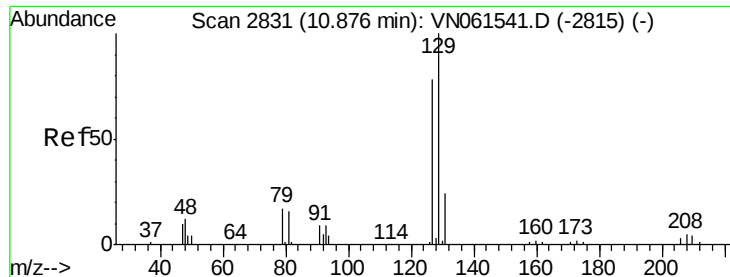
43 100

58 191.2 35.0 52.6#



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

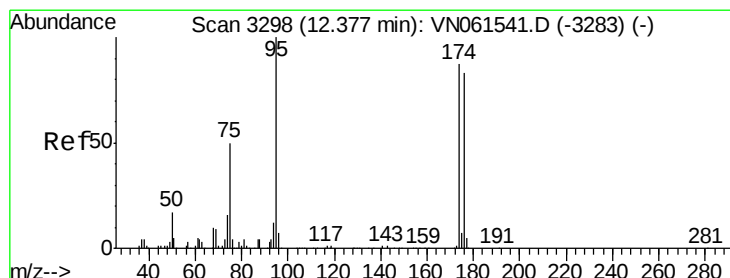
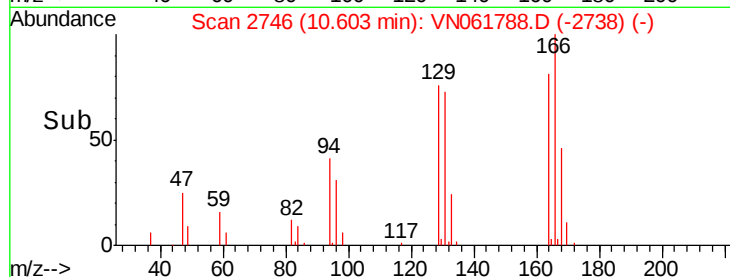
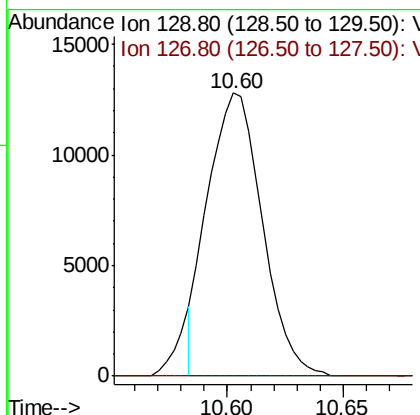
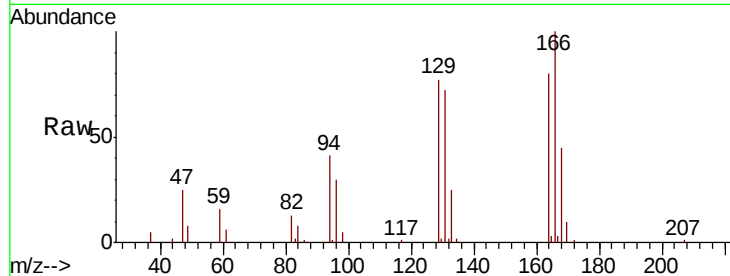




#60
Dibromochloromethane
Concen: 5.118 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. -0.27 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

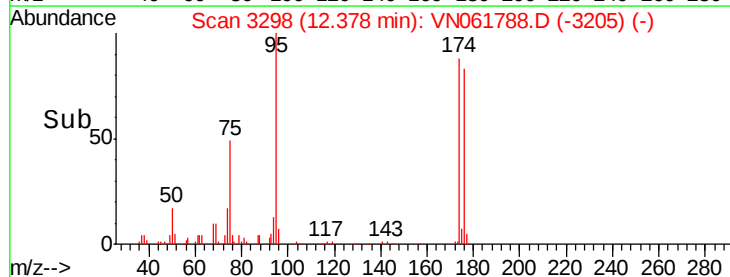
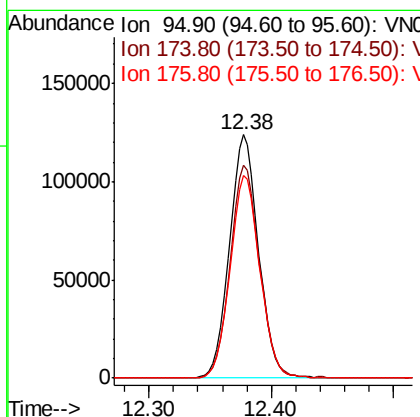
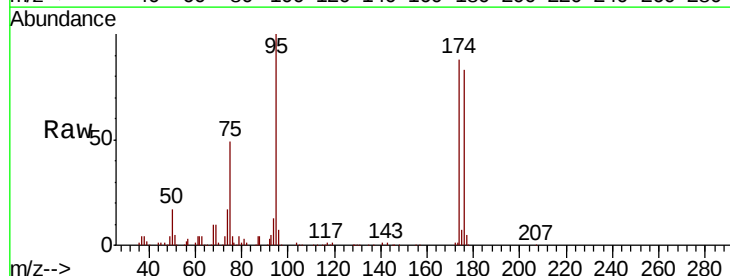
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200608DL

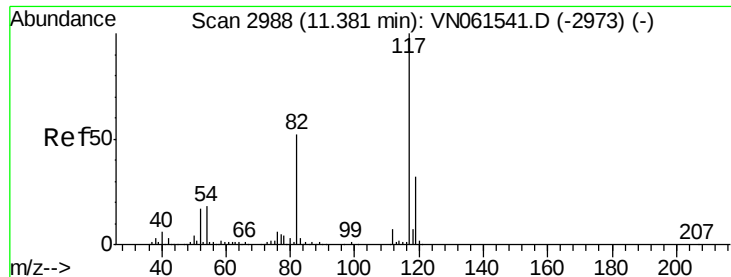
Tot Ion:129 Resp: 20891
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#



#62
4-Bromofluorobenzene
Concen: 47.514 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

Tgt Ion: 95 Resp: 205982
Ion Ratio Lower Upper
95 100
174 88.5 0.0 172.8
176 85.1 0.0 164.8

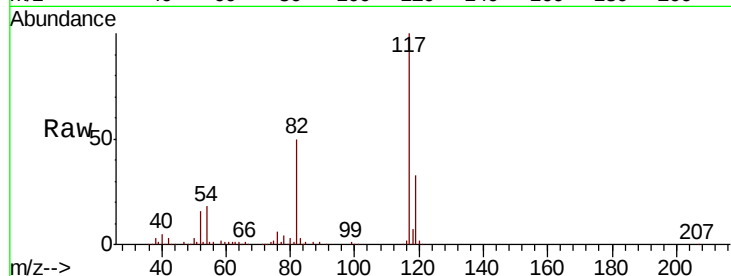




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200608DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.5	62.3
119	32.6	25.6	38.4

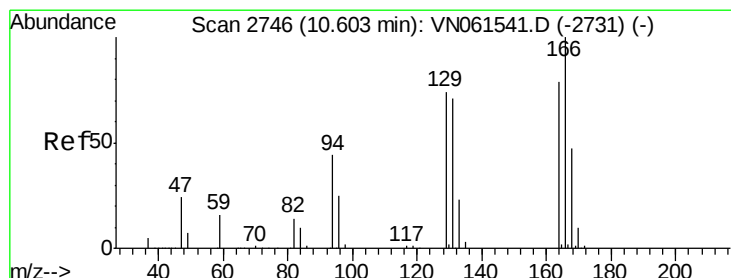
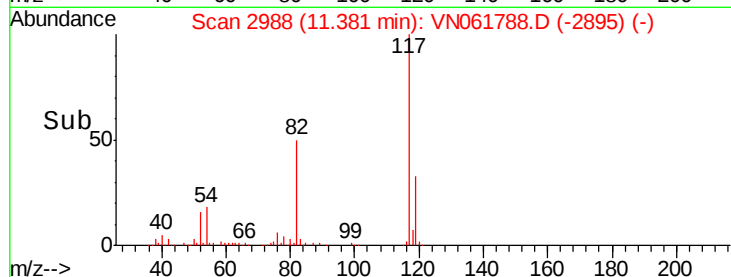
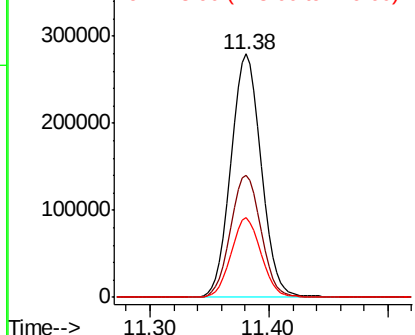


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 5.215 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061788.D
Acq: 12 Jun 2020 14:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	101.5	152.3
129	95.9	74.9	112.3
131	90.3	72.2	108.2

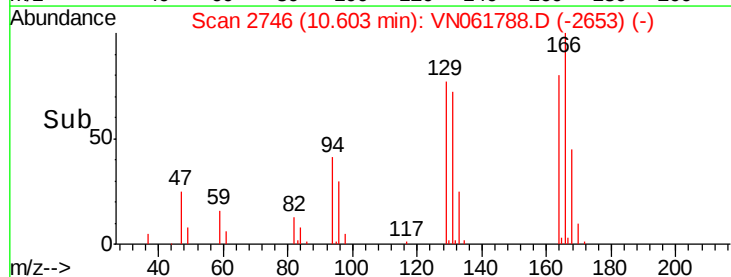
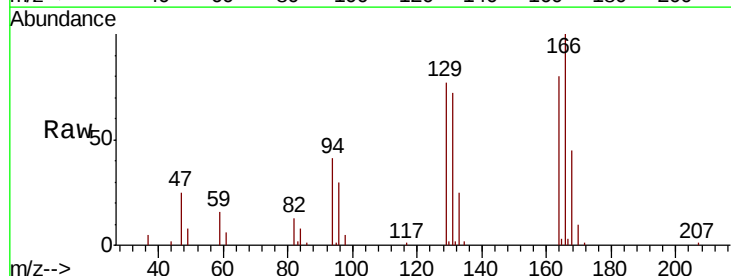
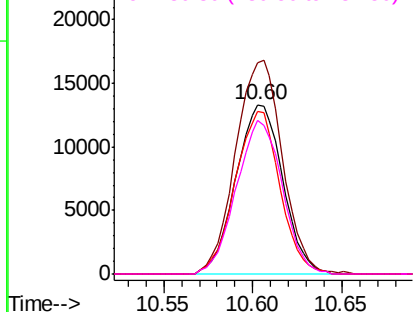
Abundance

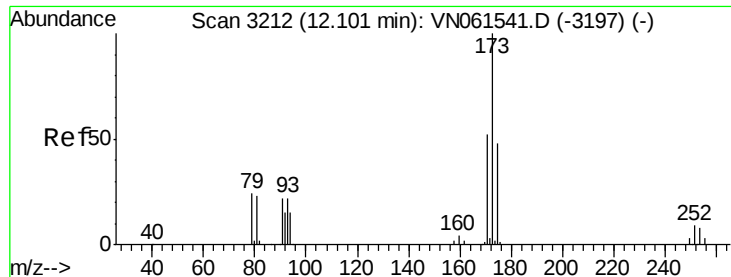
Ion 163.80 (163.50 to 164.50): V

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





#71

Bromoform

Concen: 0.631 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200608DL

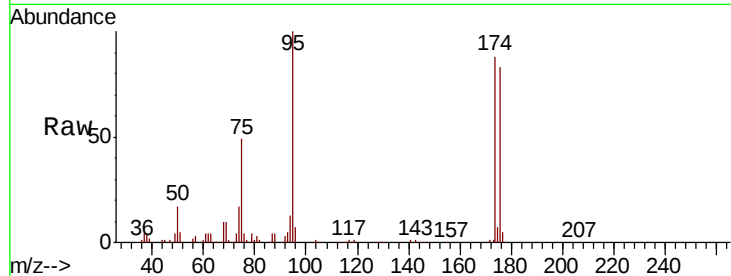
Tot Ion:173 Resp: 1862

Ion Ratio Lower Upper

173 100

175 638.0 24.4 73.2#

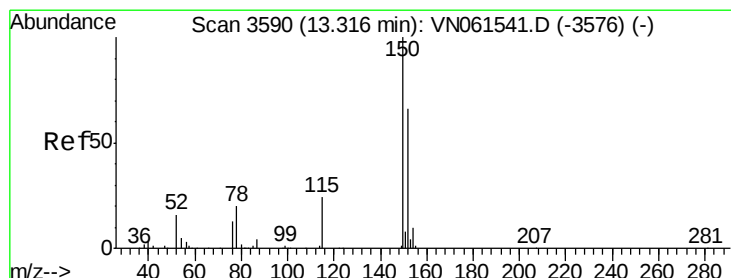
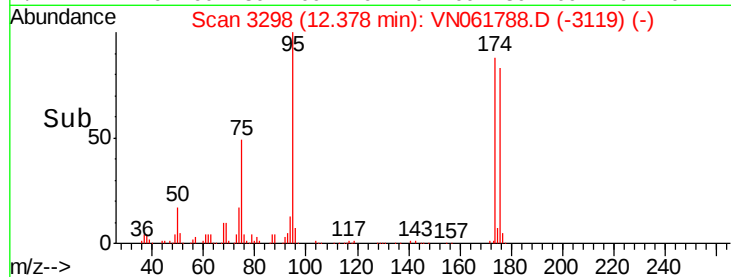
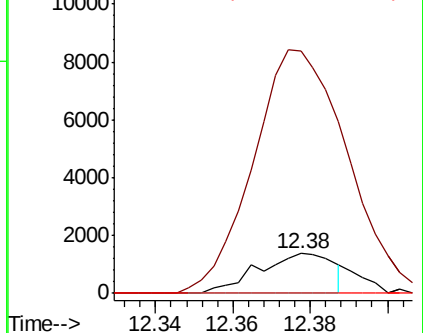
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061788.D

Acq: 12 Jun 2020 14:03

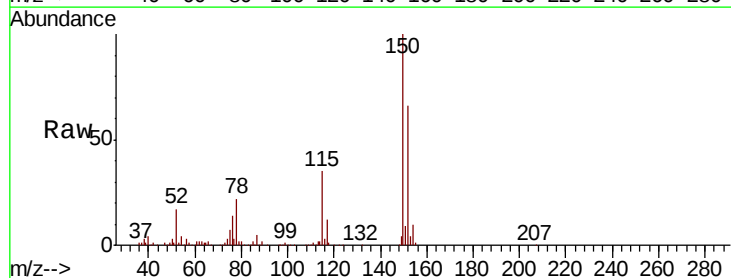
Tgt Ion:152 Resp: 218374

Ion Ratio Lower Upper

152 100

115 55.4 28.0 84.0

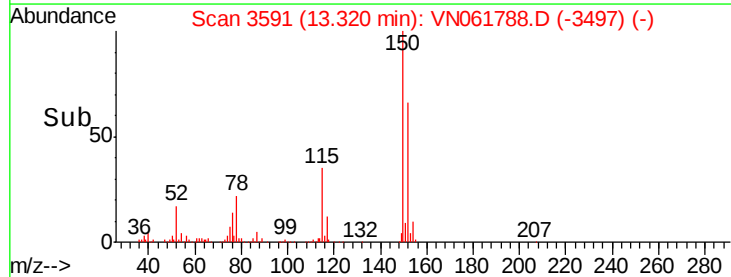
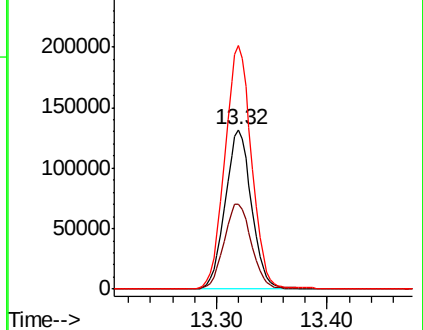
150 154.7 0.0 344.0

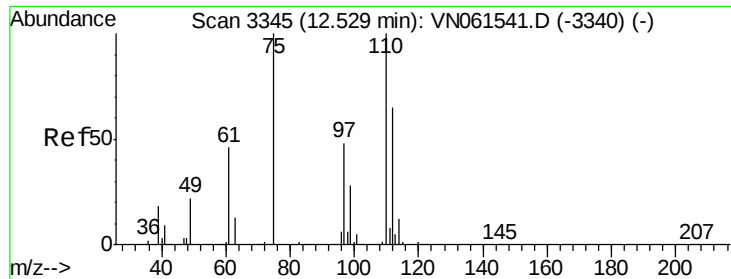


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

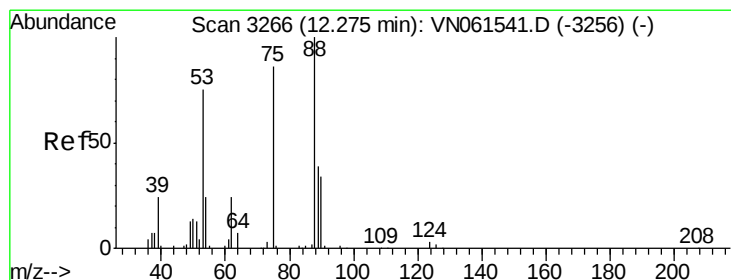
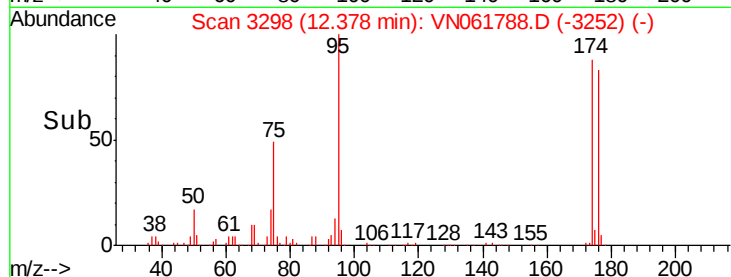
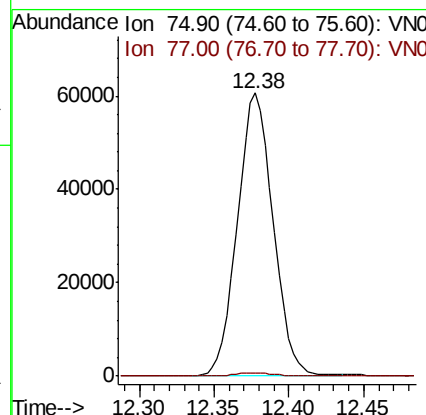
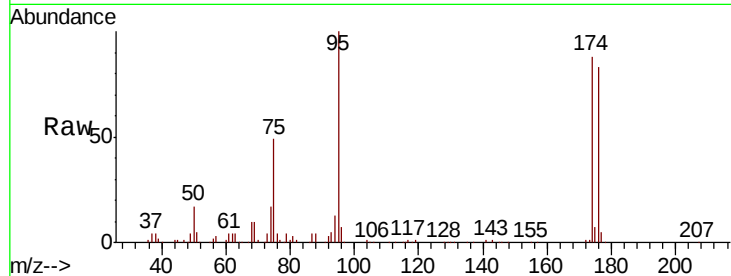




#76
 1,2,3-Trichloropropane
 Concen: 25.396 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061788.D
 Acq: 12 Jun 2020 14:03

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20200608DL

Tot Ion: 75 Resp: 100846
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.945 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061788.D
 Acq: 12 Jun 2020 14:03

Tgt Ion: 75 Resp: 100846
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

