

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058544.D
 Acq On : 4 Oct 2019 16:31
 Operator : JC/SP
 Sample : K5169-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:39:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	429174	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	689951	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	599976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245679	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	307242	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
35) Dibromofluoromethane	7.57	113	214312	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
50) Toluene-d8	10.08	98	866100	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	12.41	95	282419	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	

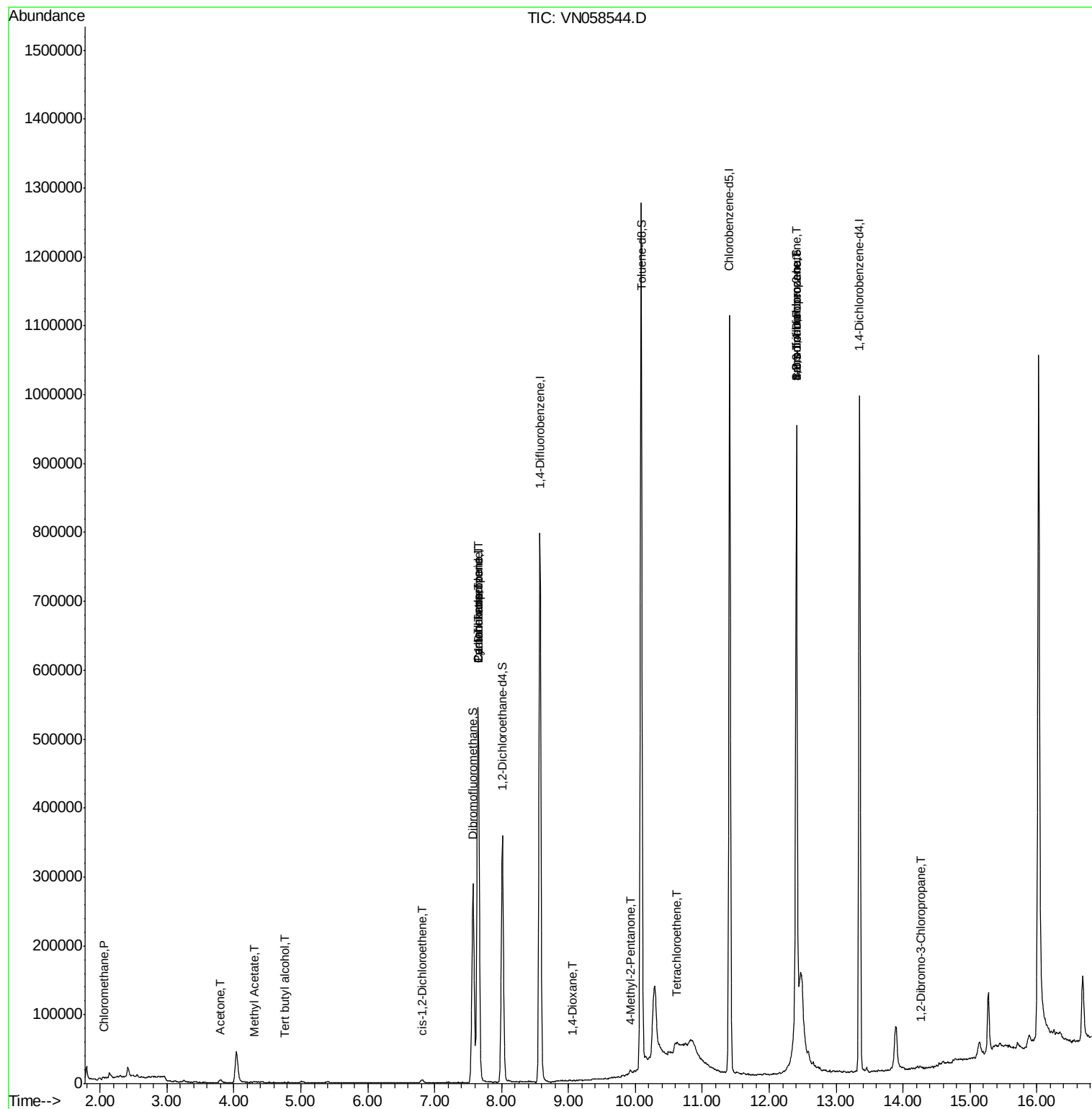
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1844	0.356	ug/l	89
11) Tert butyl alcohol	4.76	59	391	0.561	ug/l #	71
16) Acetone	3.80	43	7551	3.532	ug/l	97
18) Methyl Acetate	4.31	43	1920	0.357	ug/l #	53
27) cis-1,2-Dichloroethene	6.82	96	1349	0.256	ug/l	45
31) Cyclohexane	7.65	56	10587	1.220	ug/l #	4
36) 1,1-Dichloropropene	7.65	75	36989	5.607	ug/l #	51
38) Carbon Tetrachloride	7.65	117	44169	7.417	ug/l #	16
49) 1,4-Dioxane	9.05	88	29	0.453	ug/l #	21
51) 4-Methyl-2-Pentanone	9.92	43	2845	0.527	ug/l #	37
60) Dibromochloromethane	10.63	129	801	Below Cal	#	11
64) Tetrachloroethene	10.63	164	1233	0.323	ug/l #	73
71) Bromoform	12.40	173	818	0.985	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	155276	34.603	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	155276	105.094	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.27	75	460	0.486	ug/l #	5

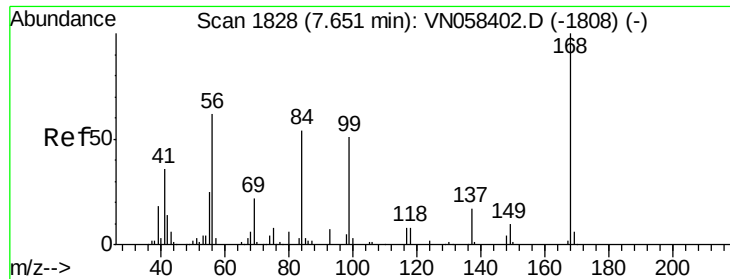
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

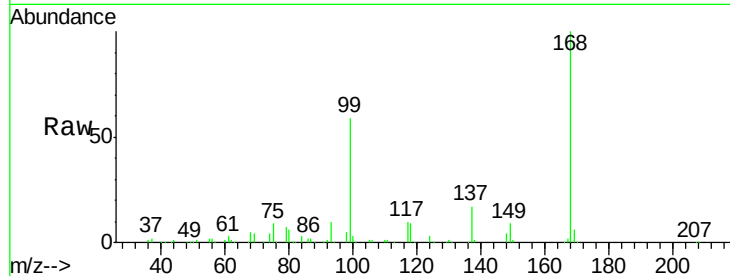
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 429174

Ion Ratio Lower Upper

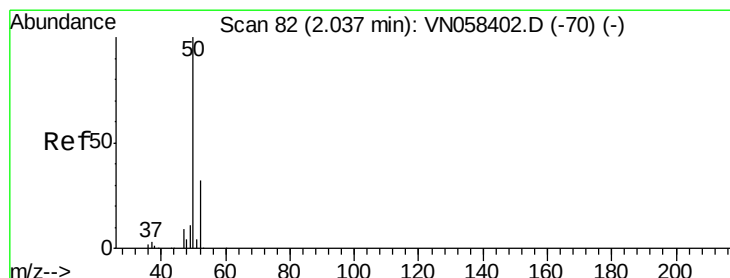
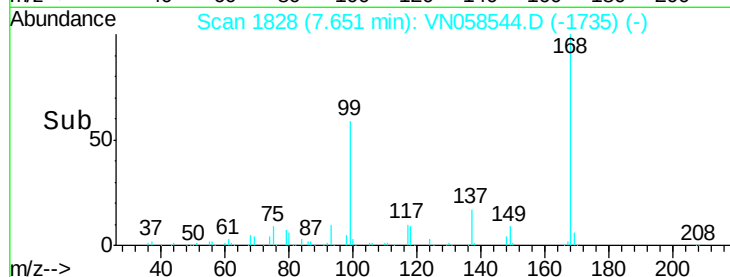
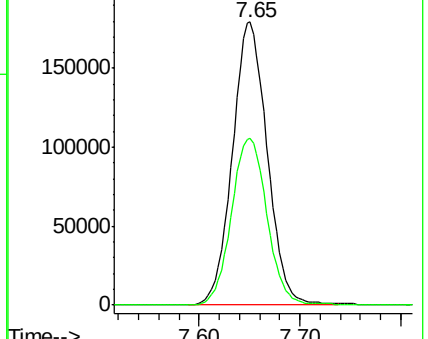
168 100

99 59.1 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.356 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058544.D

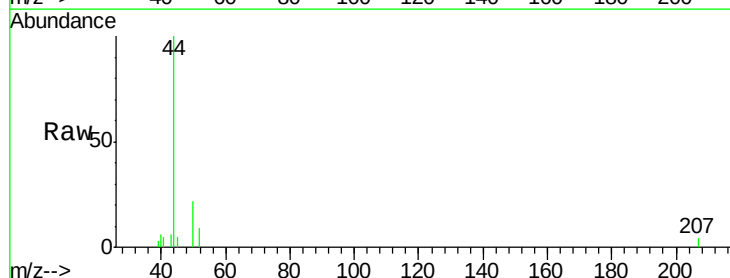
Acq: 4 Oct 2019 16:31

Tgt Ion: 50 Resp: 1844

Ion Ratio Lower Upper

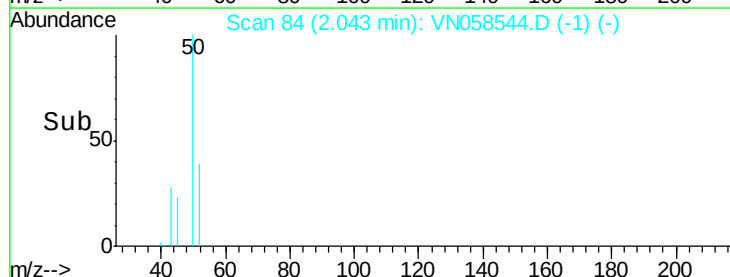
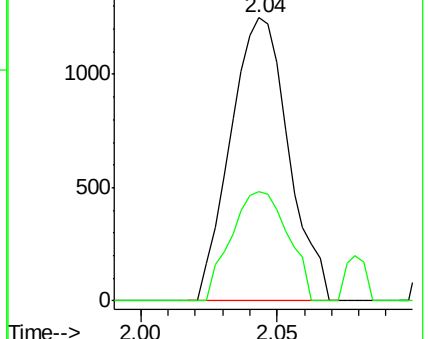
50 100

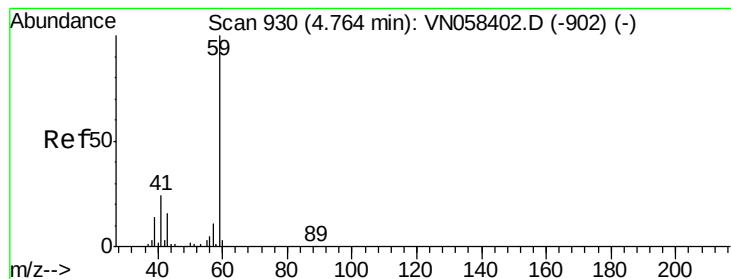
52 38.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#11

Tert butyl alcohol

Concen: 0.561 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :

MSVOA_N

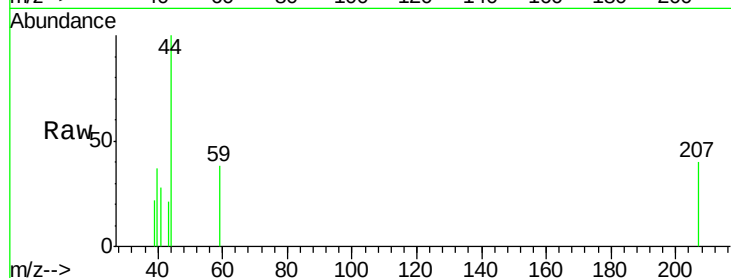
ClientSampleId :

Tot Ion: 59 Resp: 391

Ion Ratio Lower Upper

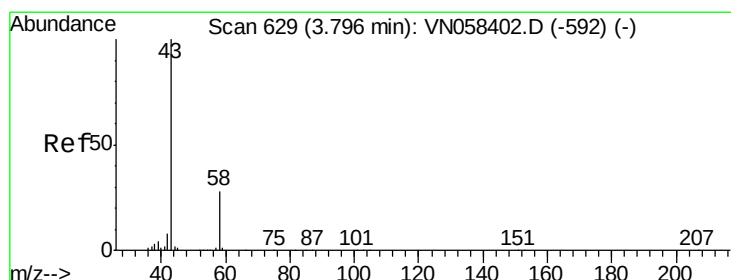
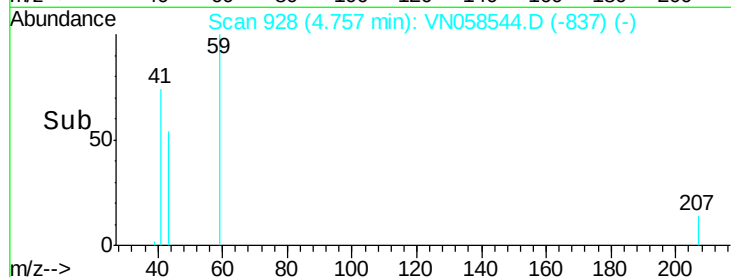
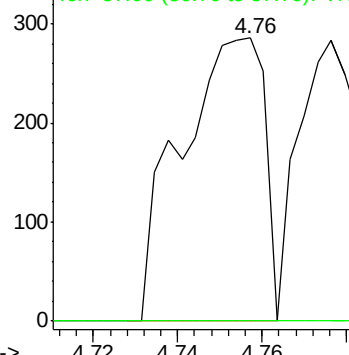
59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 3.532 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058544.D

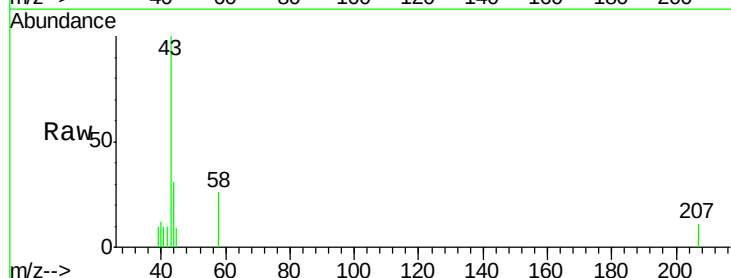
Acq: 4 Oct 2019 16:31

Tgt Ion: 43 Resp: 7551

Ion Ratio Lower Upper

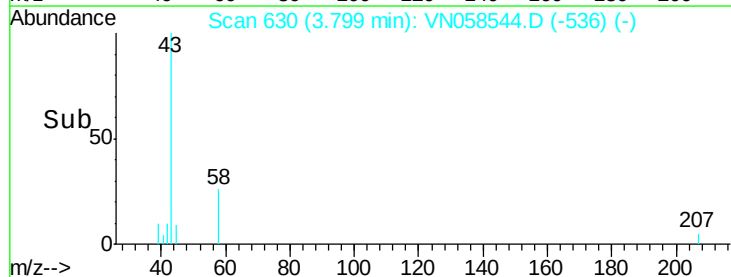
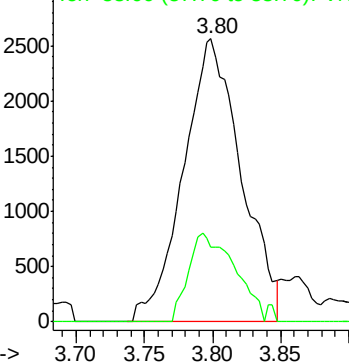
43 100

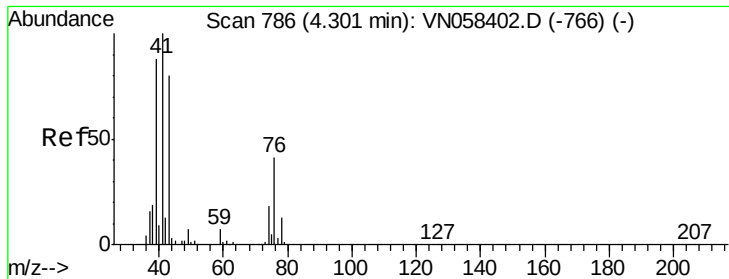
58 26.5 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

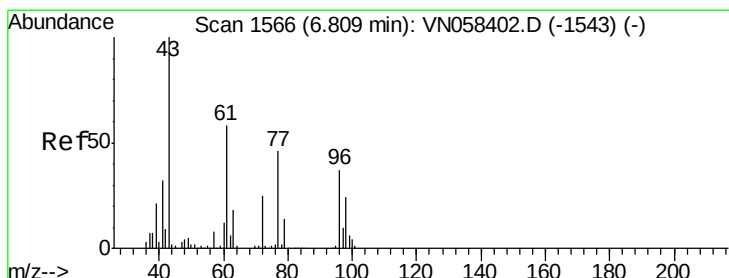
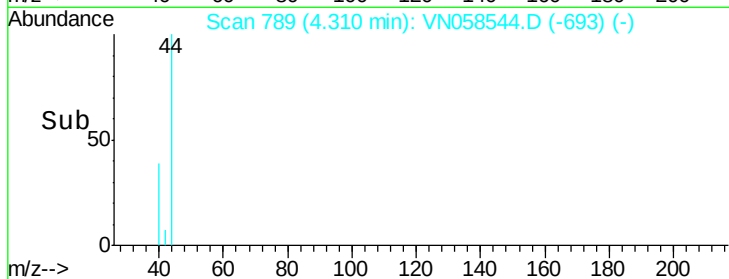
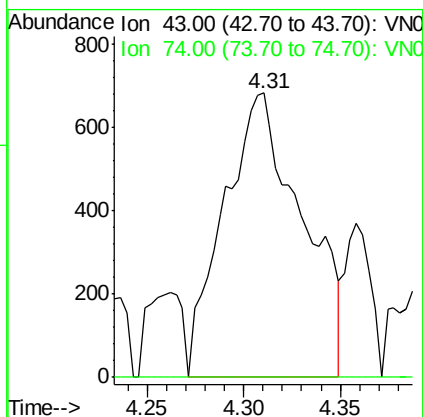
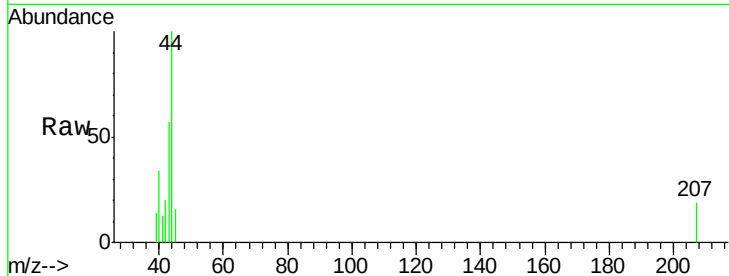




#18
Methyl Acetate
Concen: 0.357 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058544.D
Acq: 4 Oct 2019 16:31

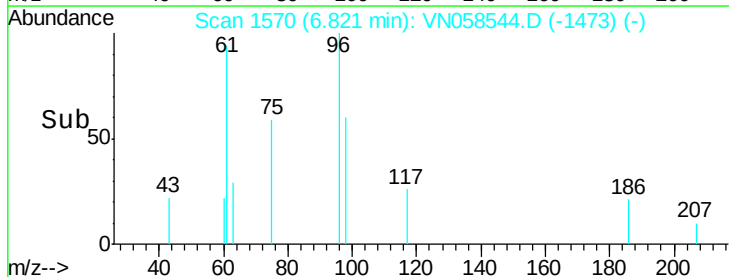
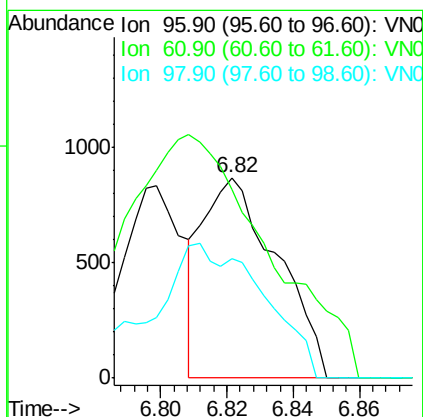
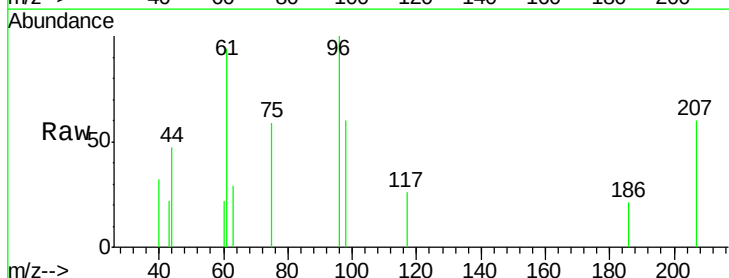
Instrument :
MSVOA_N
ClientSampleId :

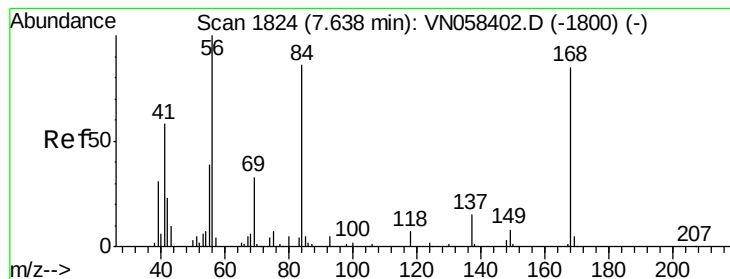
Tot Ion: 43 Resp: 1920
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#27
cis-1,2-Dichloroethene
Concen: 0.256 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058544.D
Acq: 4 Oct 2019 16:31

Tgt Ion: 96 Resp: 1349
Ion Ratio Lower Upper
96 100
61 238.5 0.0 318.8
98 98.2 0.0 129.8





#31

Cyclohexane

Concen: 1.220 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :
MSVOA_N
ClientSampleId :

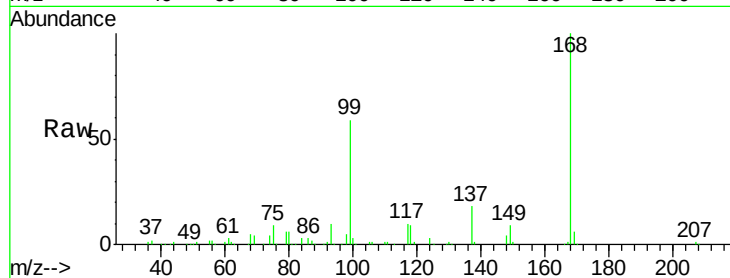
Tot Ion: 56 Resp: 10587

Ion Ratio Lower Upper

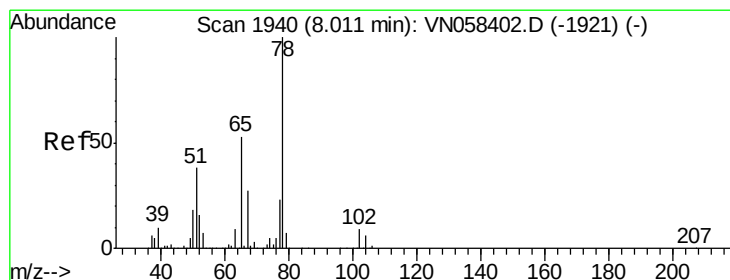
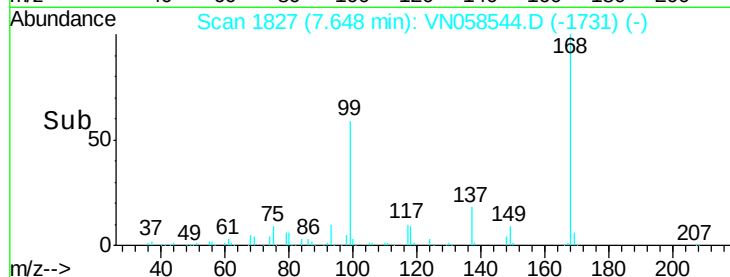
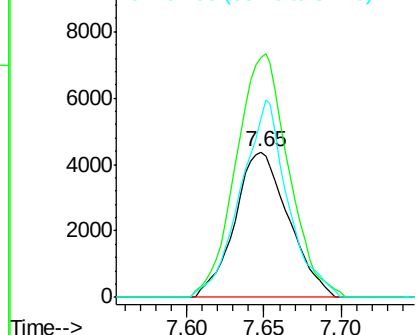
56 100

69 165.7 26.2 39.4#

84 123.1 67.6 101.4#



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: 48.989 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058544.D

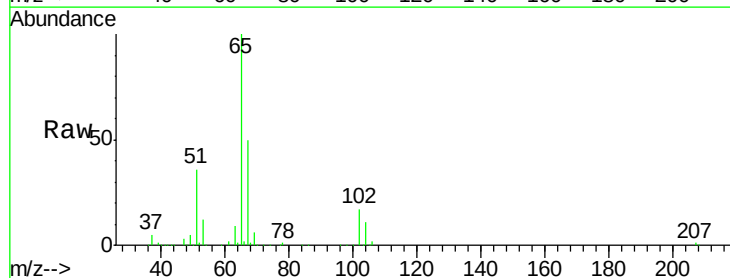
Acq: 4 Oct 2019 16:31

Tgt Ion: 65 Resp: 307242

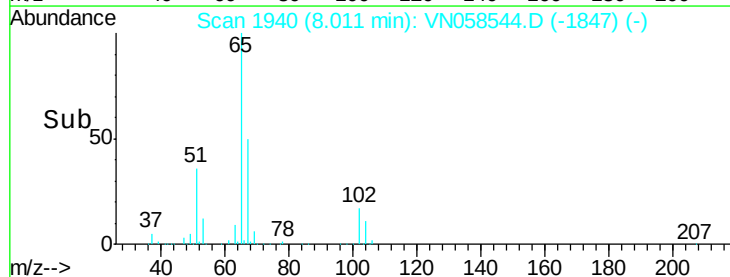
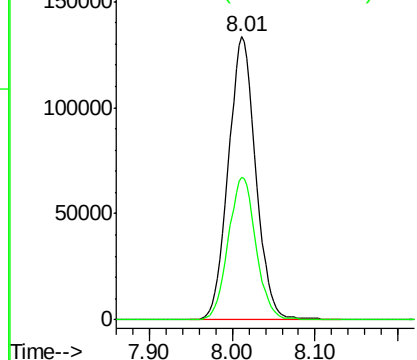
Ion Ratio Lower Upper

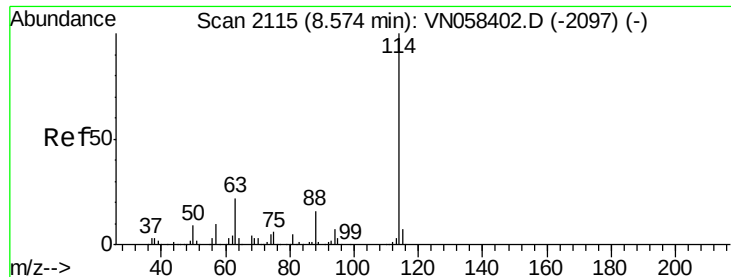
65 100

67 50.7 0.0 102.4



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

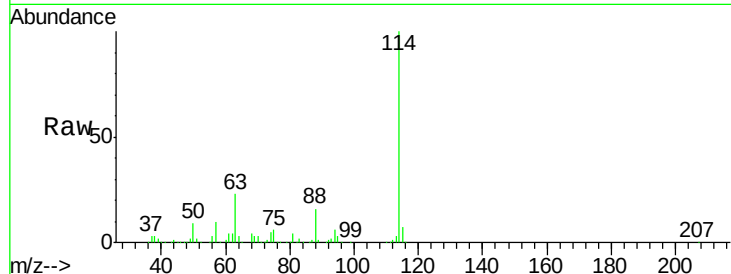




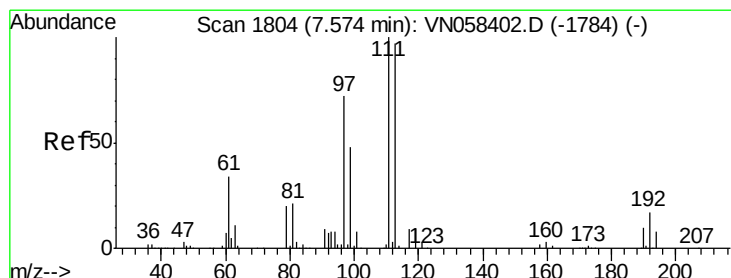
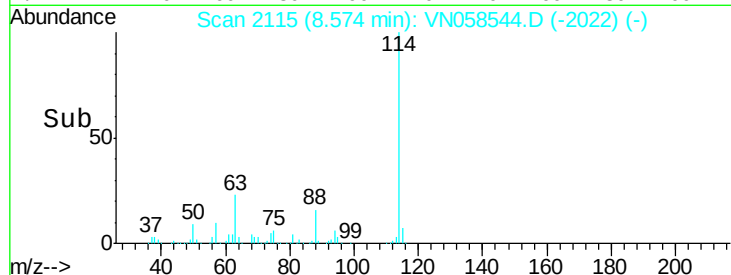
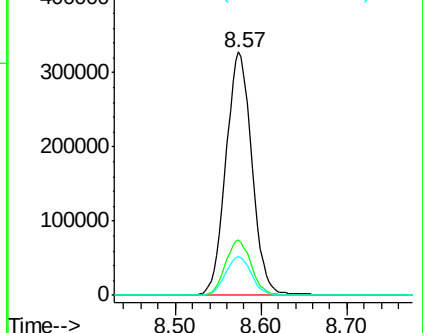
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058544.D
 Acq: 4 Oct 2019 16:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	45.0
88	15.9	0.0	32.2

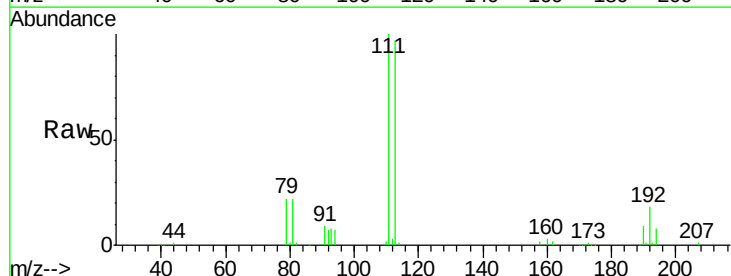


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

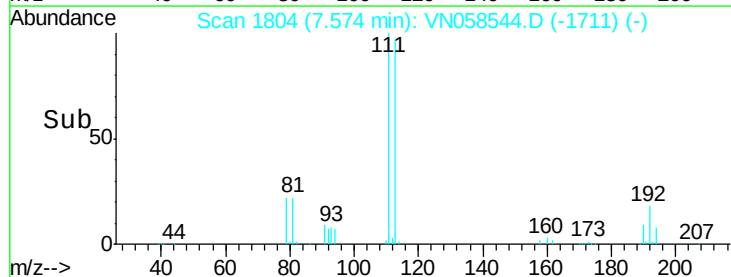
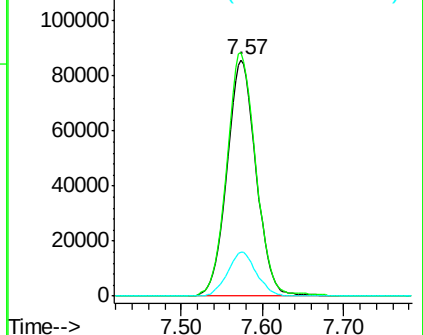


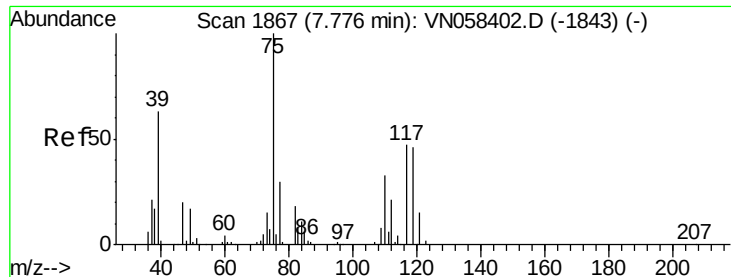
#35
 Dibromofluoromethane
 Concen: 50.681 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058544.D
 Acq: 4 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.4	125.2
192	18.4	14.9	22.3



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: 5.607 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :
MSVOA_N
ClientSampled :

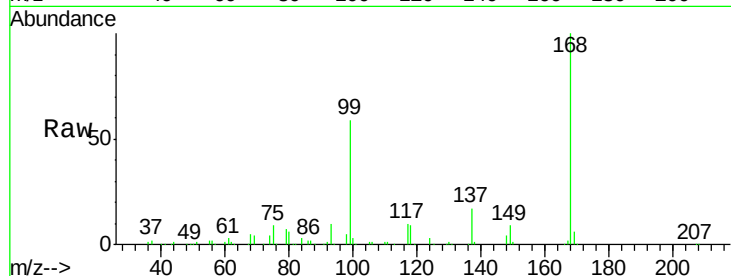
Tot Ion: 75 Resp: 36989

Ion Ratio Lower Upper

75 100

110 8.1 16.4 49.2#

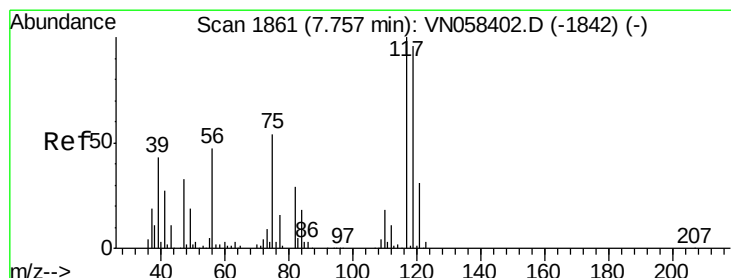
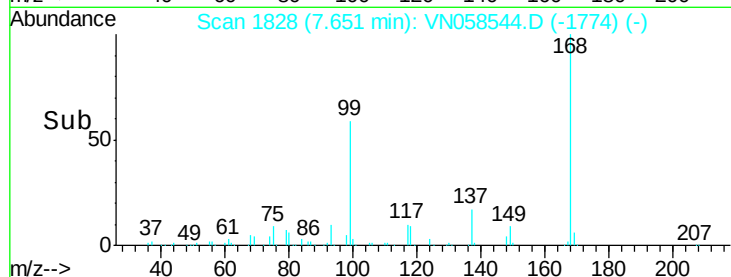
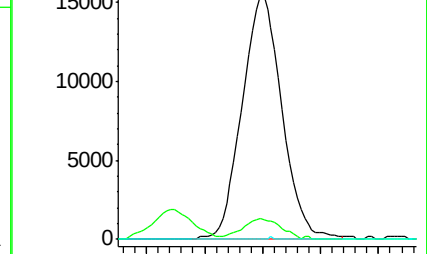
77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VN058402.D (-1843) (-)

Ion 109.90 (109.60 to 110.60): VN058402.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN058402.D (-1843) (-)



#38

Carbon Tetrachloride

Concen: 7.417 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

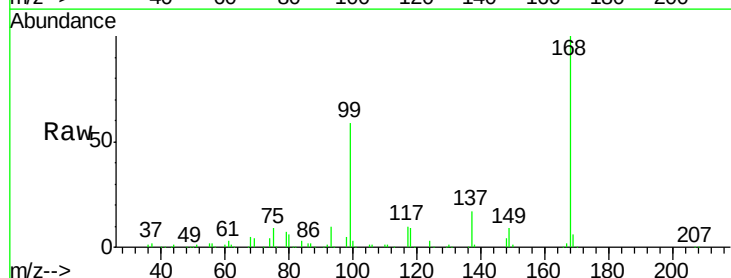
Tgt Ion: 117 Resp: 44169

Ion Ratio Lower Upper

117 100

119 4.9 76.6 115.0#

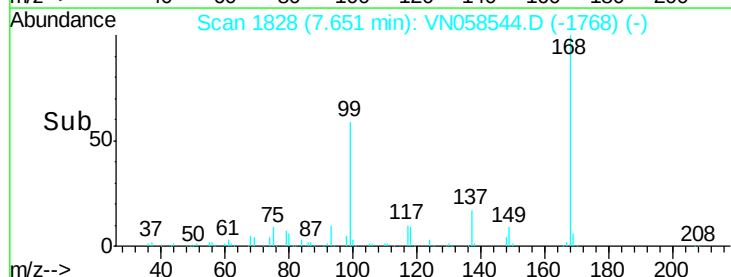
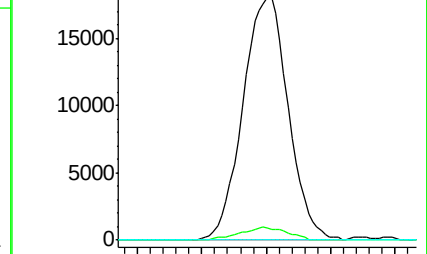
121 0.0 24.7 37.1#

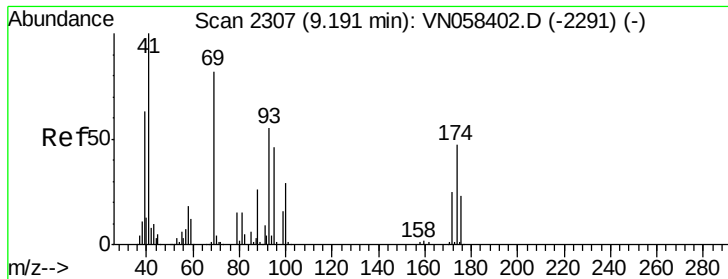


Abundance Ion 116.80 (116.50 to 117.50): VN058402.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN058402.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN058402.D (-1842) (-)





#49

1,4-Dioxane

Concen: 0.453 ug/l

RT: 9.05 min Scan# 2264

Delta R.T. -0.14 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :

MSVOA_N

ClientSampled :

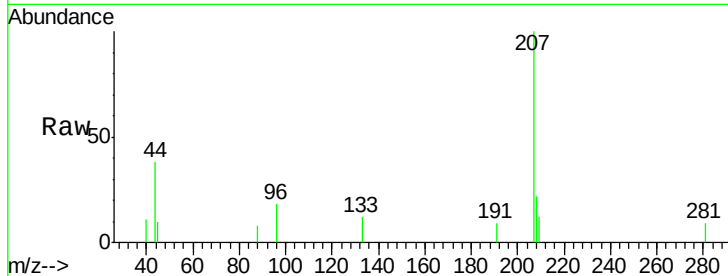
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 31.1 46.7#

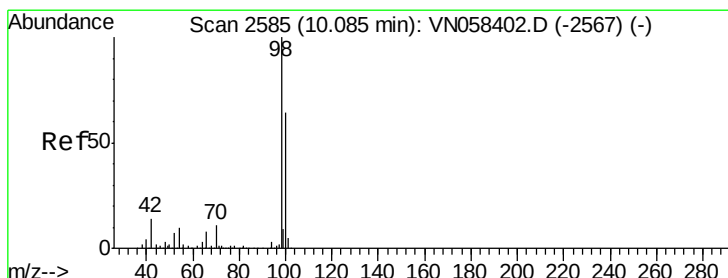
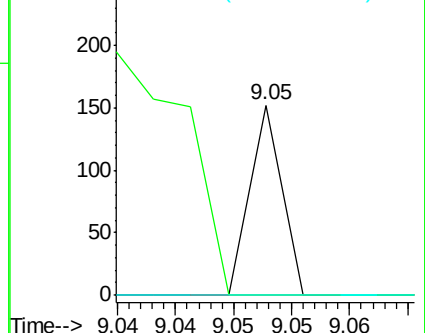
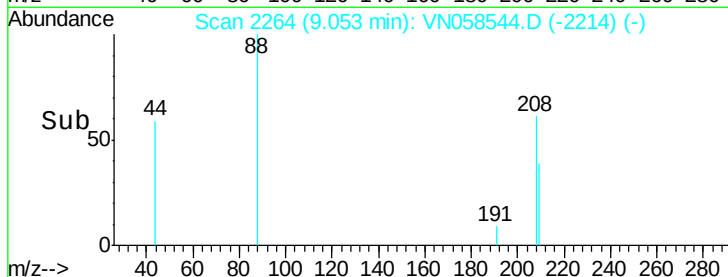
58 0.0 58.1 87.1#



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: 52.284 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058544.D

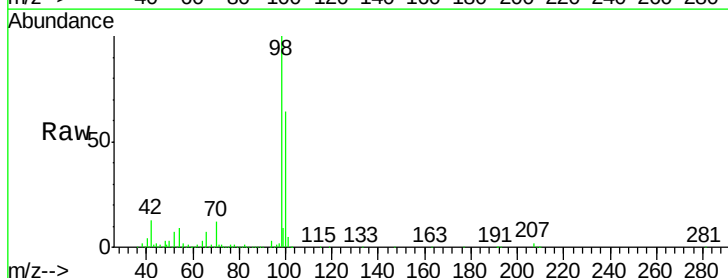
Acq: 4 Oct 2019 16:31

Tgt Ion: 98 Resp: 866100

Ion Ratio Lower Upper

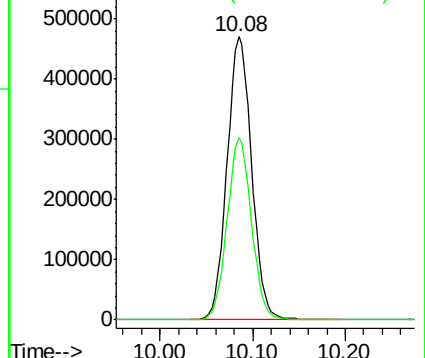
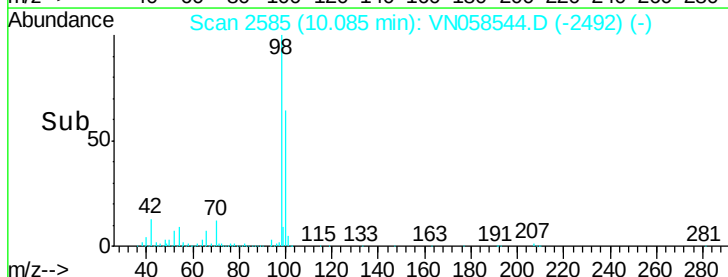
98 100

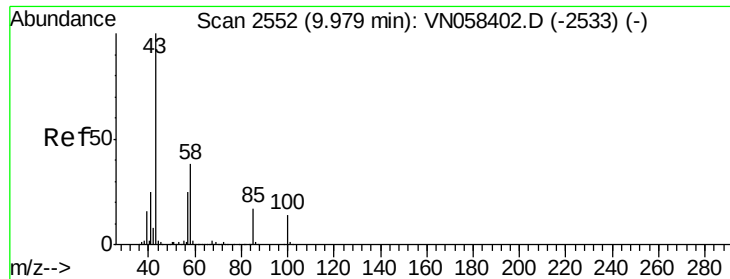
100 63.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

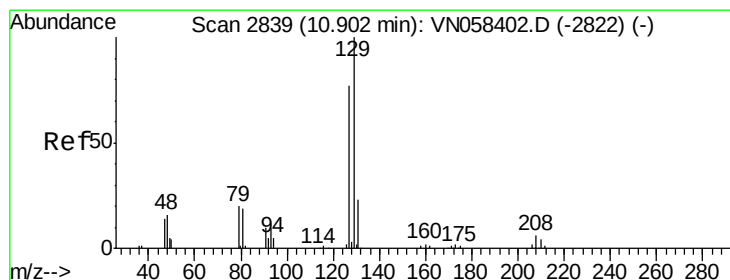
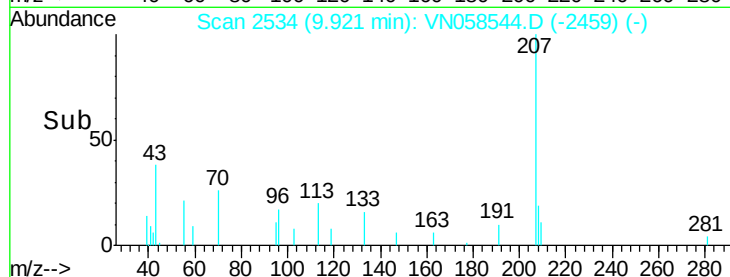
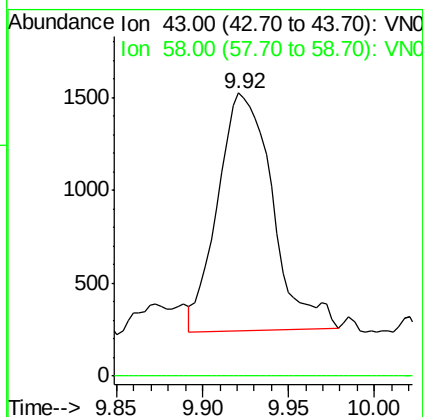
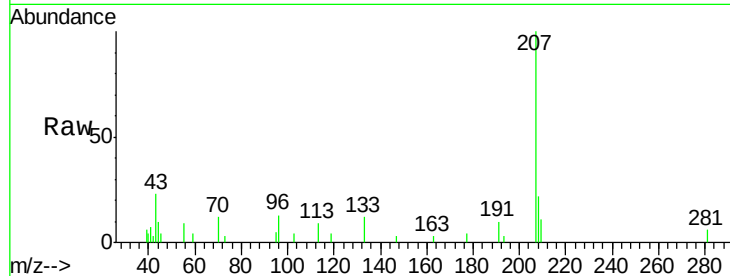




#51
 4-Methyl-2-Pentanone
 Concen: 0.527 ug/l
 RT: 9.92 min Scan# 2534
 Delta R.T. -0.06 min
 Lab File: VN058544.D
 Acq: 4 Oct 2019 16:31

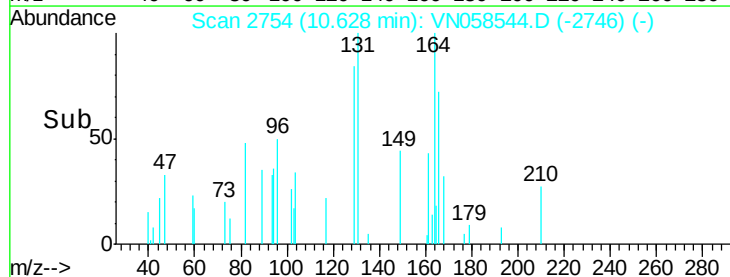
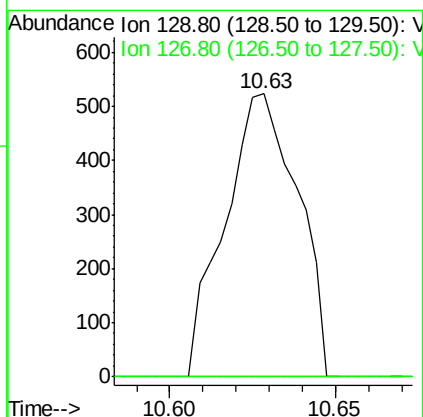
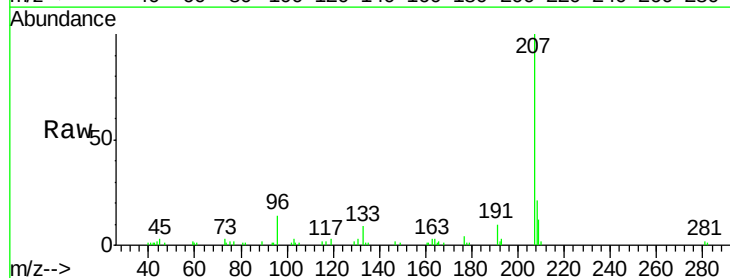
Instrument :
 MSVOA_N
 ClientSampleId :

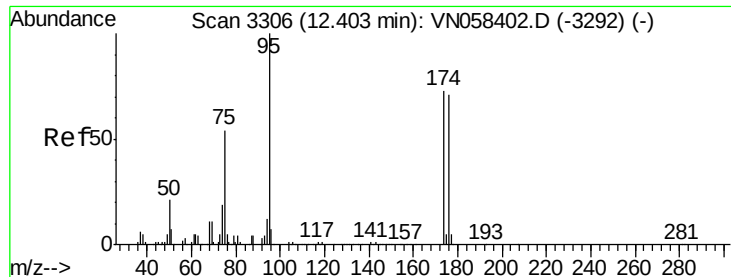
Tot Ion: 43 Resp: 2845
 Ion Ratio Lower Upper
 43 100
 58 0.0 30.2 45.2#



#60
 Dibromochloromethane
 Concen: Below Cal
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058544.D
 Acq: 4 Oct 2019 16:31

Tgt Ion: 129 Resp: 801
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 47.151 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :

MSVOA_N

ClientSampled :

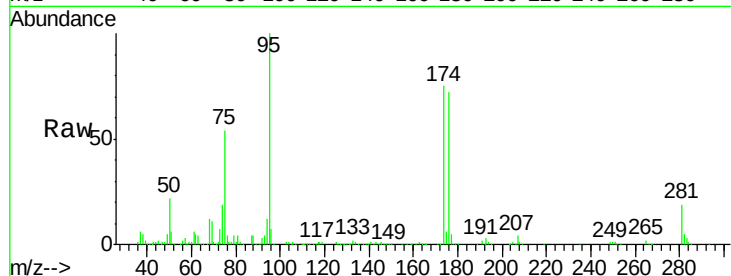
Tot Ion: 95 Resp: 282419

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.6

176 73.2 0.0 146.2

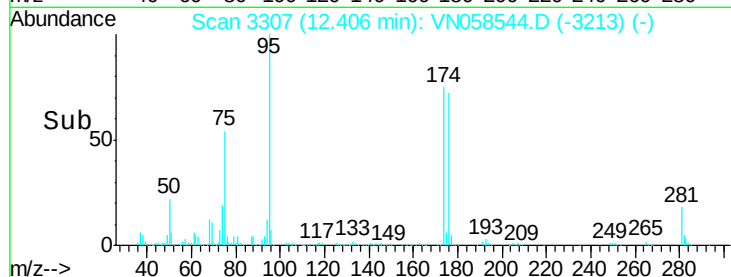


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

Time-->

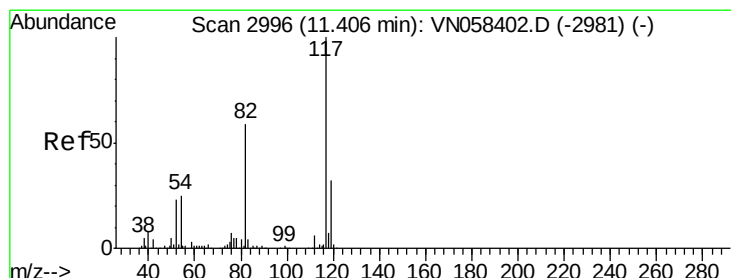


Abundance Ion 94.90 (94.60 to 95.60): VN058544.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058544.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058544.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

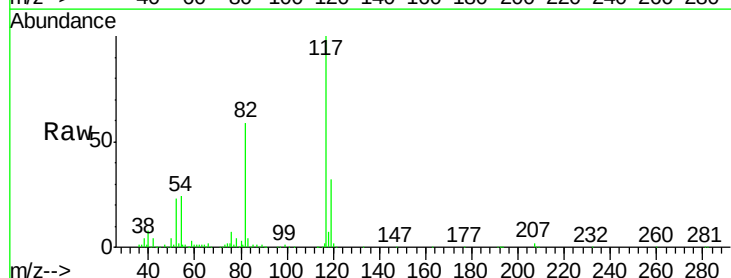
Tgt Ion: 117 Resp: 599976

Ion Ratio Lower Upper

117 100

82 58.5 47.4 71.0

119 32.0 25.5 38.3

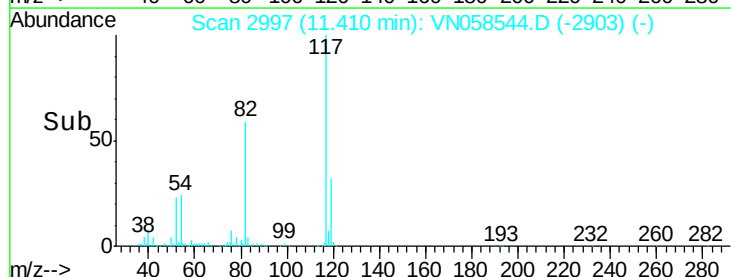


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

Time-->

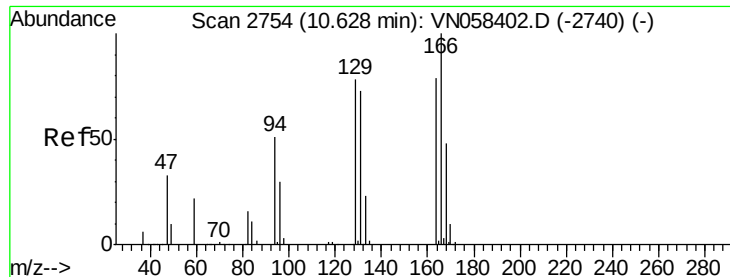


Abundance Ion 116.90 (116.60 to 117.60): VN058544.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058544.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058544.D (-2903) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.323 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 1233

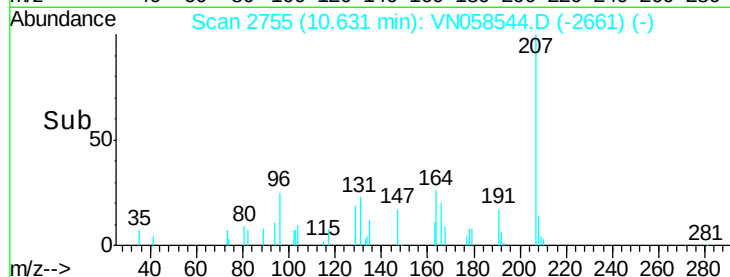
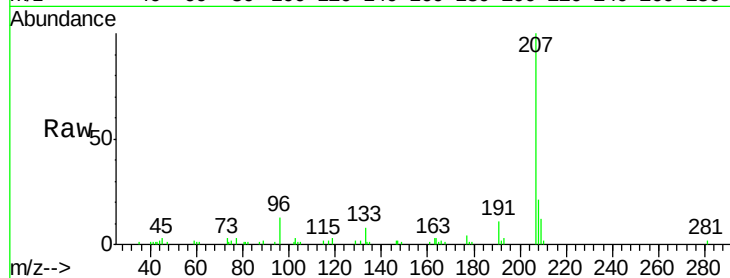
Ion Ratio Lower Upper

164 100

166 77.7 101.1 151.7#

129 70.8 79.2 118.8#

131 87.5 74.1 111.1

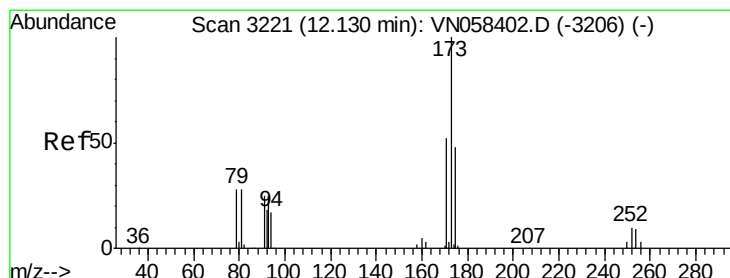
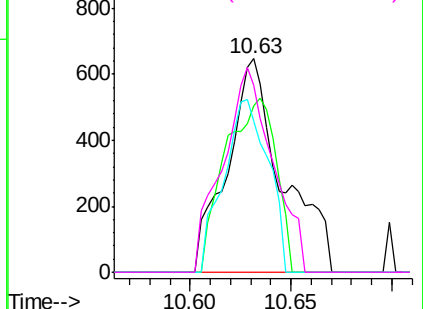


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.985 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

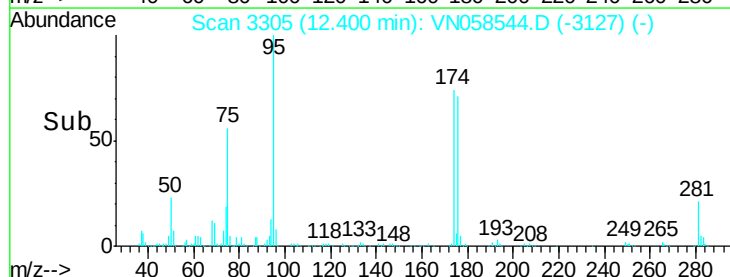
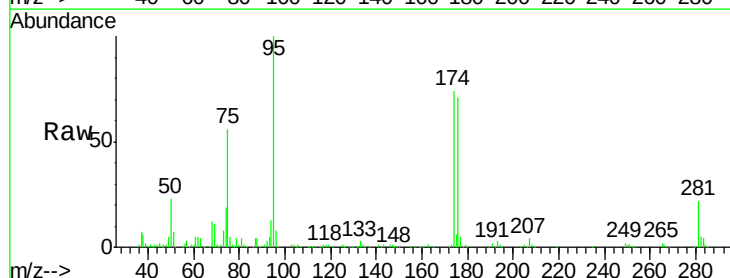
Tgt Ion:173 Resp: 818

Ion Ratio Lower Upper

173 100

175 1726.9 24.3 73.0#

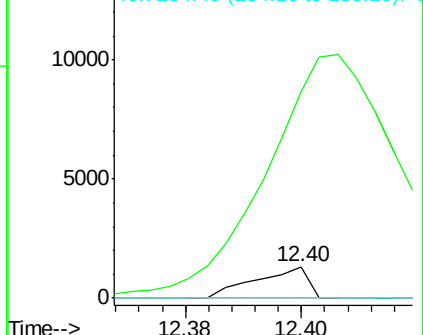
254 0.0 0.1 0.1#

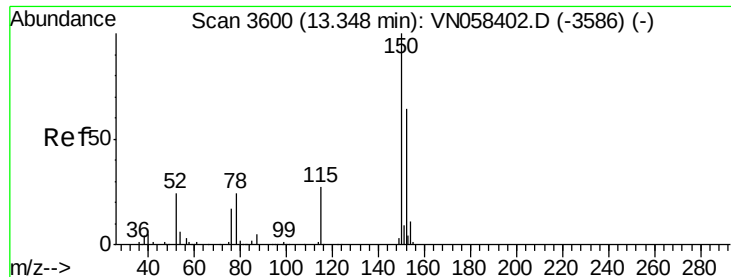


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058544.D

Acq: 4 Oct 2019 16:31

Instrument :

MSVOA_N

ClientSampleId :

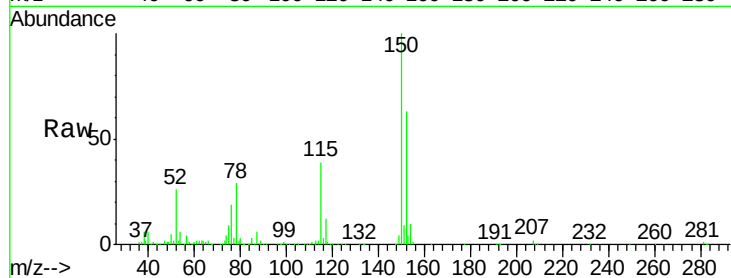
Tot Ion:152 Resp: 245679

Ion Ratio Lower Upper

152 100

115 60.9 30.0 90.0

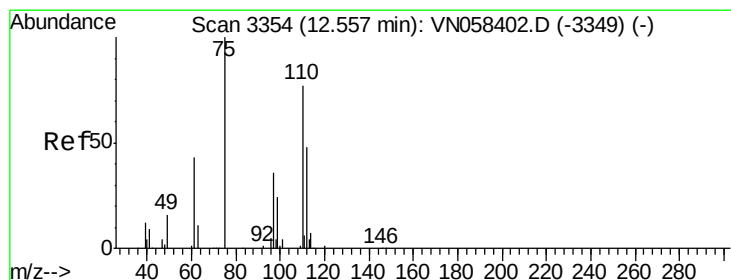
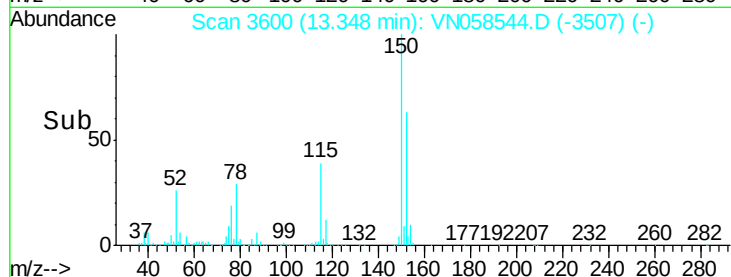
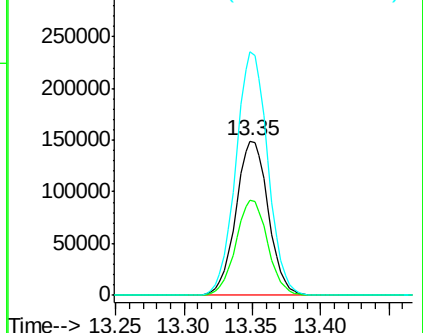
150 156.1 0.0 348.2



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: 34.603 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058544.D

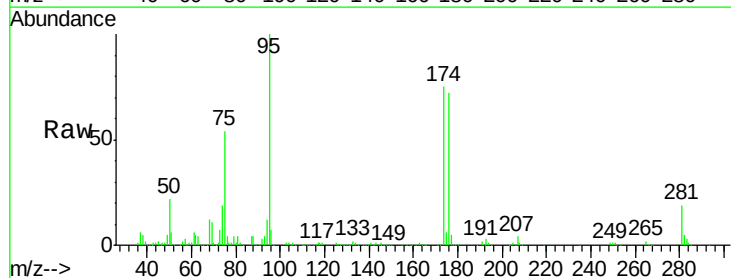
Acq: 4 Oct 2019 16:31

Tgt Ion: 75 Resp: 155276

Ion Ratio Lower Upper

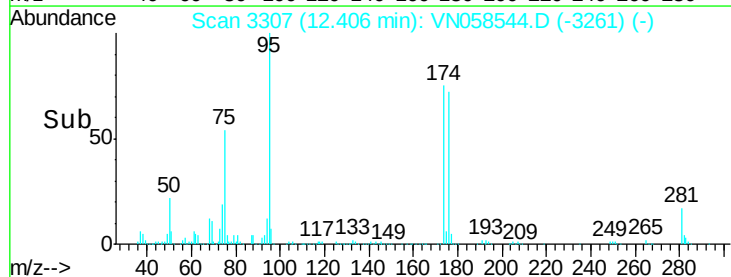
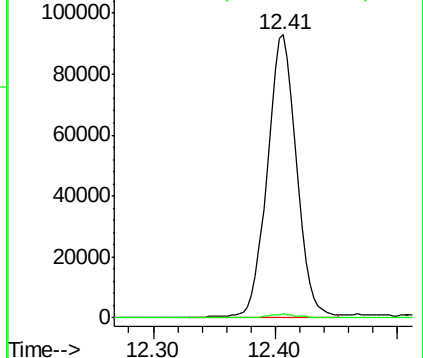
75 100

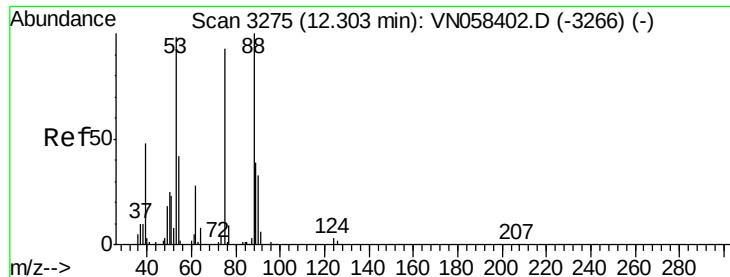
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

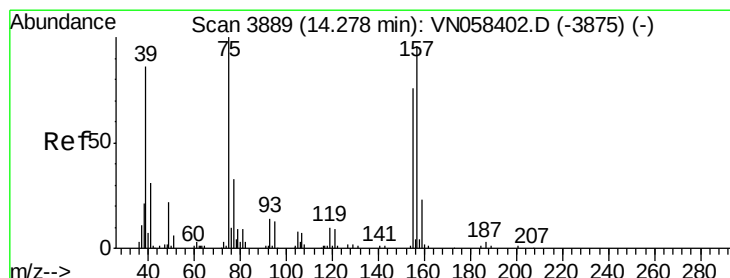
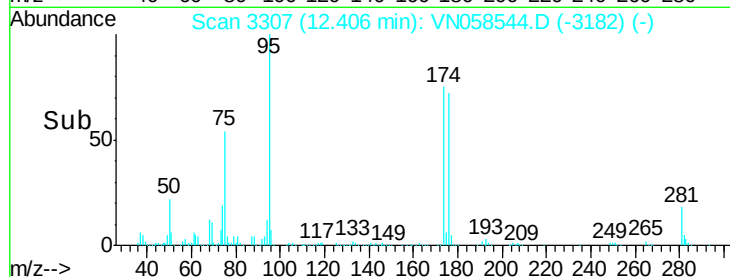
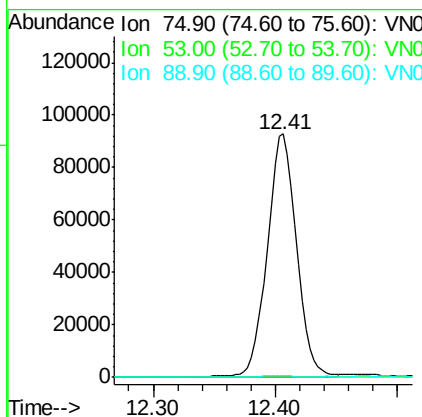
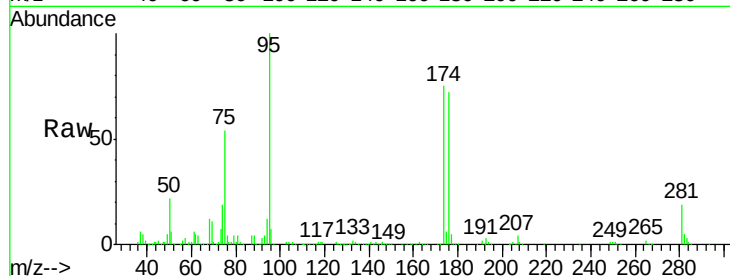




#81
trans-1,4-Dichloro-2-butene
Concen: 105.094 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN058544.D
Acq: 4 Oct 2019 16:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 155276
Ion Ratio Lower Upper
75 100
53 0.0 85.4 128.0#
89 0.2 35.0 52.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.486 ug/l
RT: 14.27 min Scan# 3888
Delta R.T. -0.00 min
Lab File: VN058544.D
Acq: 4 Oct 2019 16:31

Tgt Ion: 75 Resp: 460
Ion Ratio Lower Upper
75 100
155 0.0 39.2 117.6#
157 0.0 48.7 146.1#

