

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058529.D
 Acq On : 4 Oct 2019 11:03
 Operator : JC/SP
 Sample : VN1004WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:35:16 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	450160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	720810	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	645378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	270532	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	320881	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
35) Dibromofluoromethane	7.57	113	220113	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
50) Toluene-d8	10.09	98	908294	52.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	304701	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	

Target Compounds

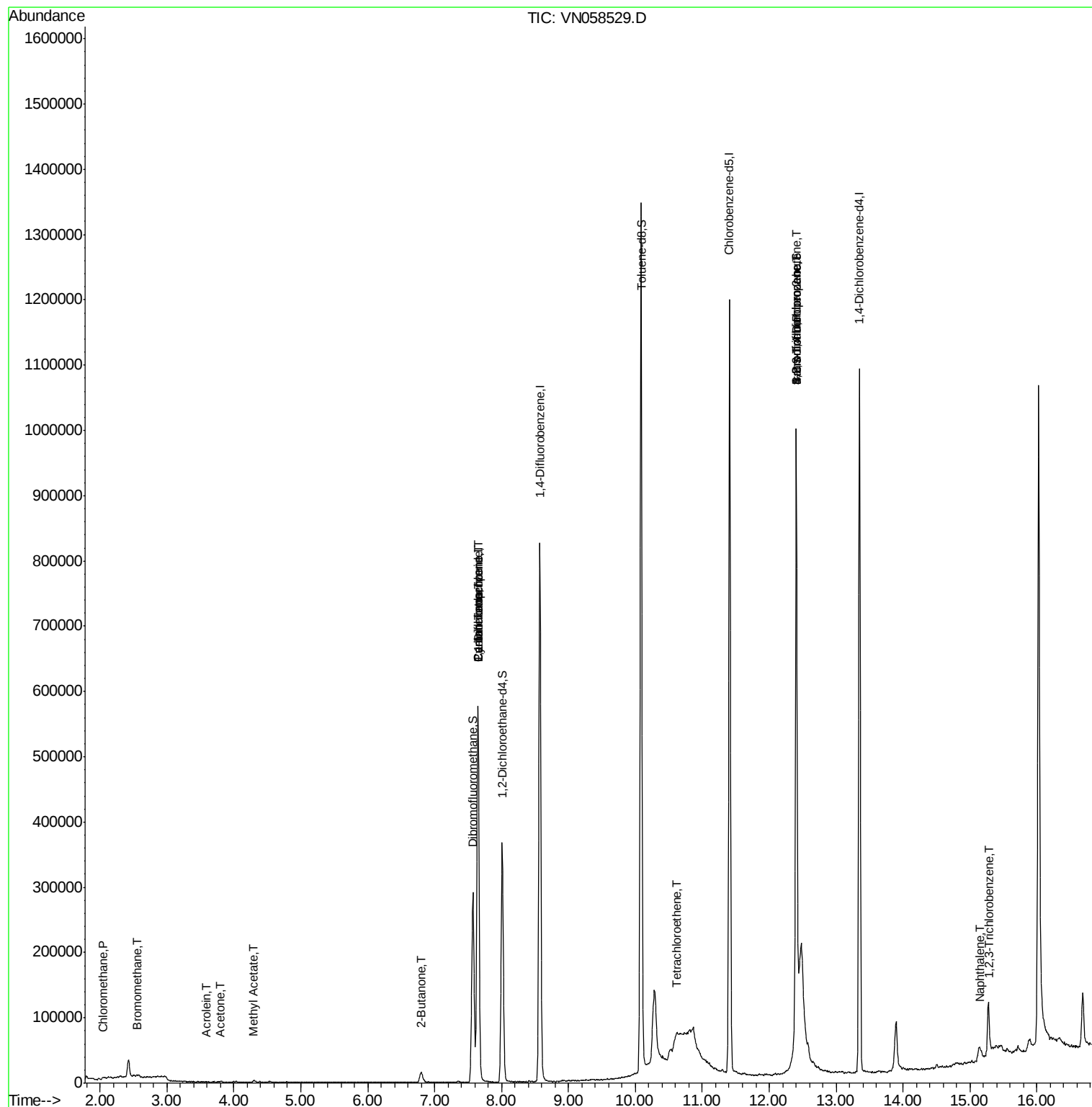
						Qvalue
3) Chloromethane	2.04	50	1939	0.357	ug/l #	73
5) Bromomethane	2.55	94	633	0.224	ug/l	88
13) Acrolein	3.59	56	64	0.275	ug/l #	13
16) Acetone	3.79	43	1918	0.855	ug/l #	47
18) Methyl Acetate	4.30	43	2392	0.424	ug/l	93
25) 2-Butanone	6.81	43	1660	0.539	ug/l #	50
31) Cyclohexane	7.65	56	11724	1.288	ug/l #	22
36) 1,1-Dichloropropene	7.64	75	38838	5.635	ug/l #	51
38) Carbon Tetrachloride	7.64	117	46033	7.399	ug/l #	17
60) Dibromochloromethane	10.63	129	682	Below Cal	#	11
64) Tetrachloroethene	10.63	164	1332	0.325	ug/l #	69
71) Bromoform	12.40	173	894	0.990	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	168756	34.152	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168756	103.725	ug/l #	7
95) Naphthalene	15.13	128	3283	0.219	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	1094	0.217	ug/l #	80

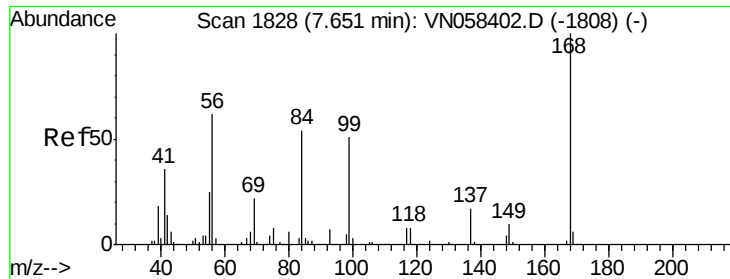
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

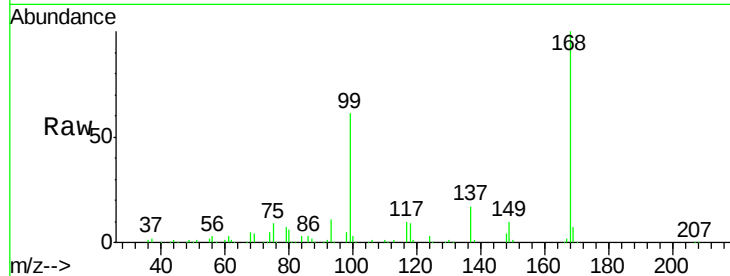
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 450160

Ion Ratio Lower Upper

168 100

99 60.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

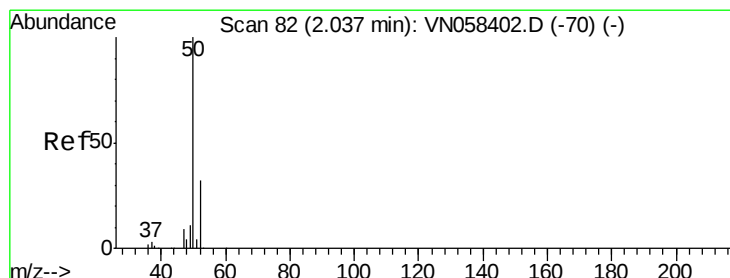
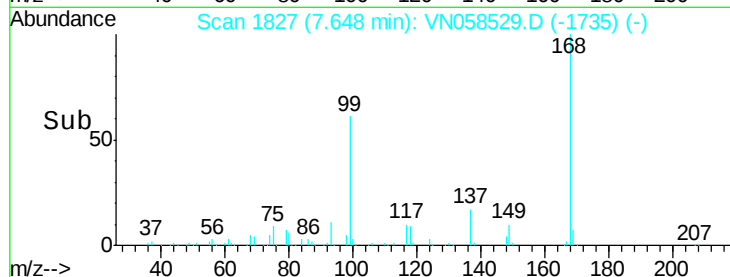
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.357 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058529.D

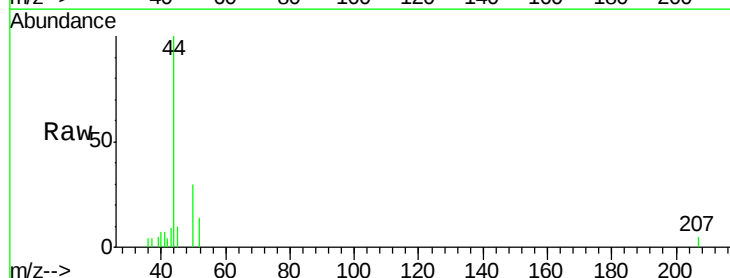
Acq: 4 Oct 2019 11:03

Tgt Ion: 50 Resp: 1939

Ion Ratio Lower Upper

50 100

52 47.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

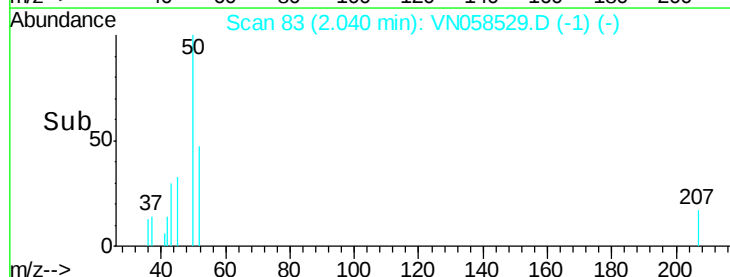
1500

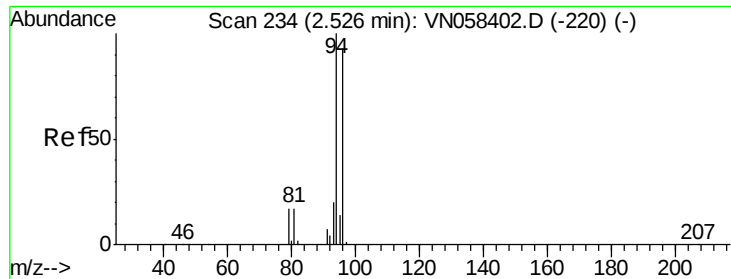
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.224 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.03 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

Instrument :

MSVOA_N

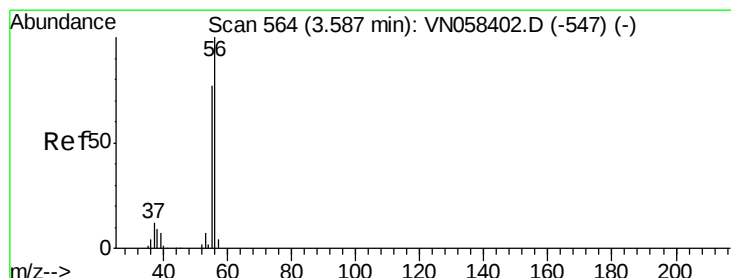
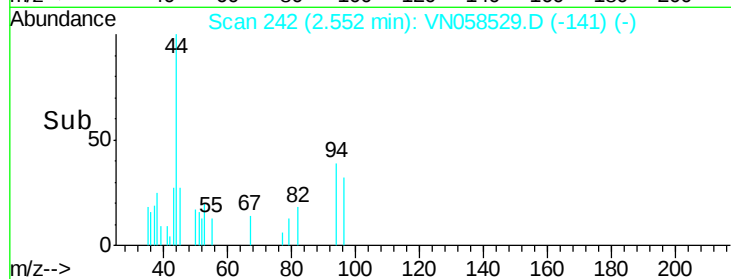
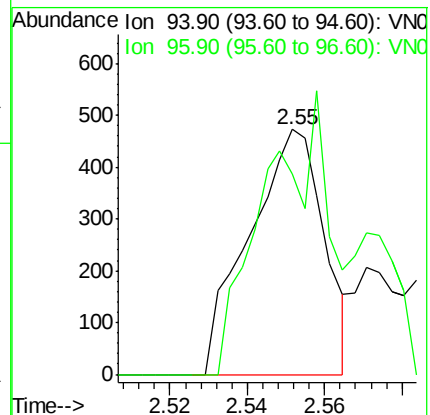
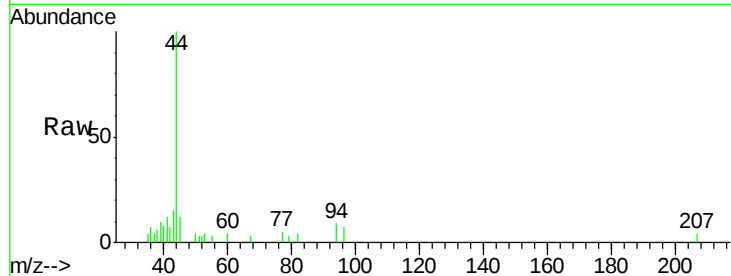
ClientSampled :

Tot Ion: 94 Resp: 633

Ion Ratio Lower Upper

94 100

96 82.0 74.8 112.2



#13

Acrolein

Concen: 0.275 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058529.D

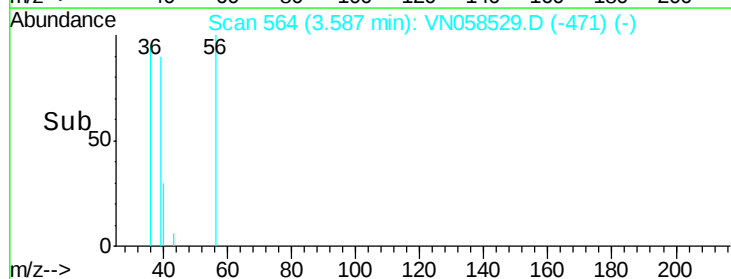
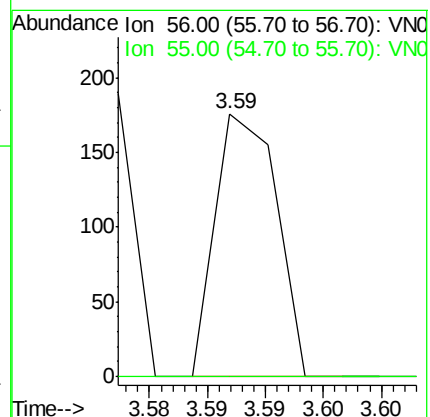
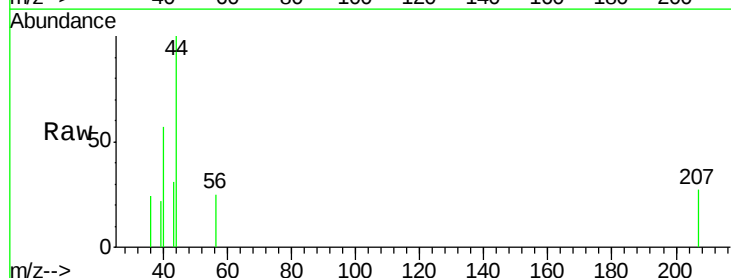
Acq: 4 Oct 2019 11:03

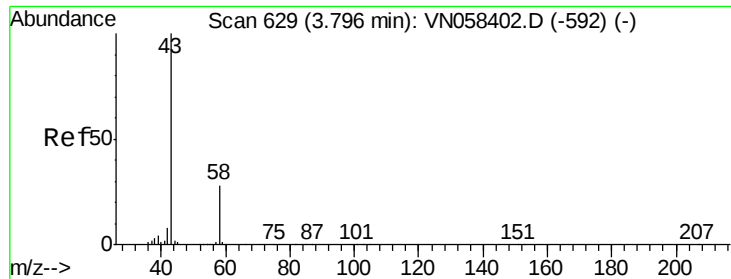
Tgt Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 0.0 58.3 87.5#

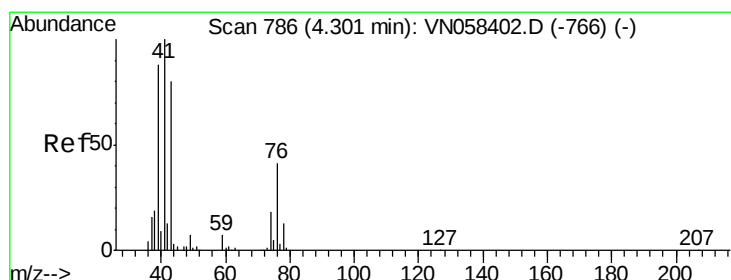
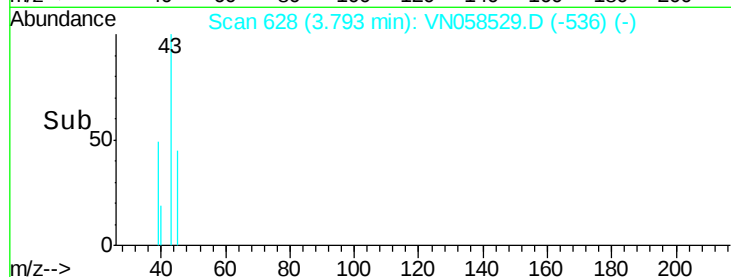
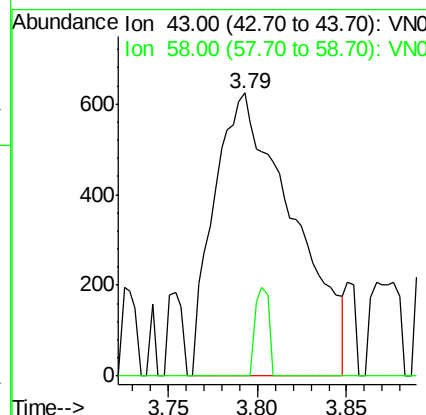
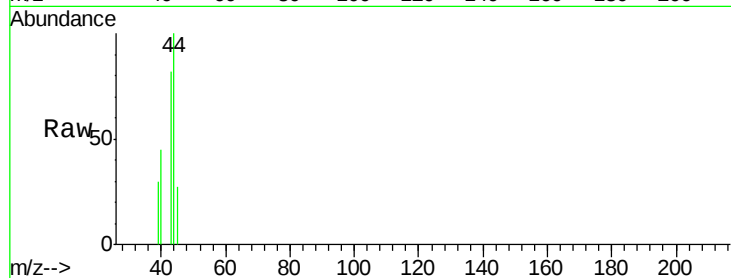




#16
Acetone
Concen: 0.855 ug/l
RT: 3.79 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN058529.D
Acq: 4 Oct 2019 11:03

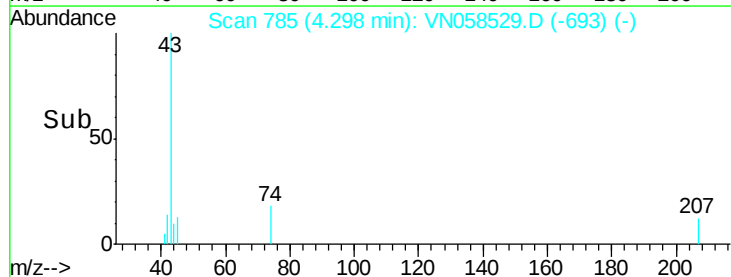
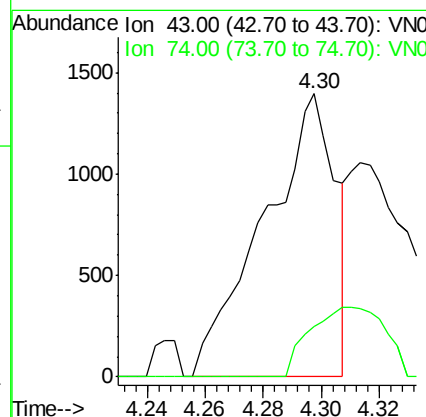
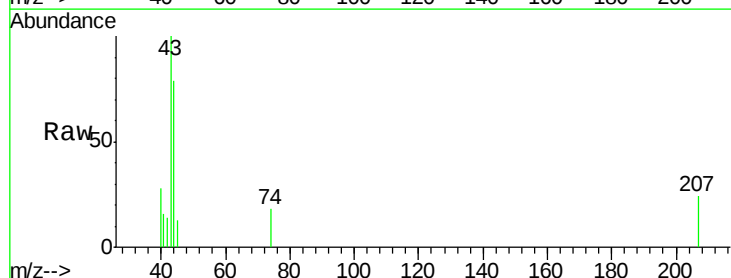
Instrument :
MSVOA_N
ClientSampleId :

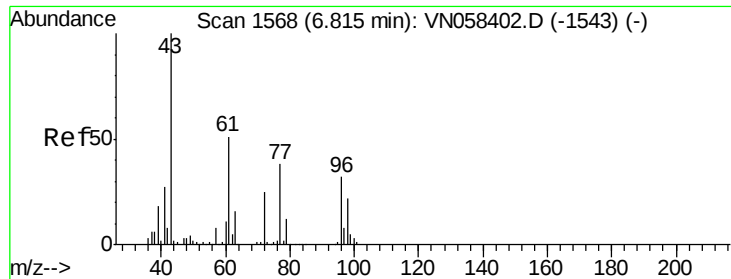
Tot Ion: 43 Resp: 1918
Ion Ratio Lower Upper
43 100
58 0.0 22.4 33.6#



#18
Methyl Acetate
Concen: 0.424 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN058529.D
Acq: 4 Oct 2019 11:03

Tgt Ion: 43 Resp: 2392
Ion Ratio Lower Upper
43 100
74 25.8 18.0 27.0





#25

2-Butanone

Concen: 0.539 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

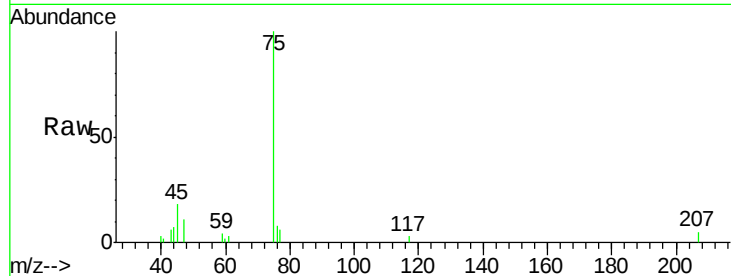
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1660

Ion Ratio Lower Upper

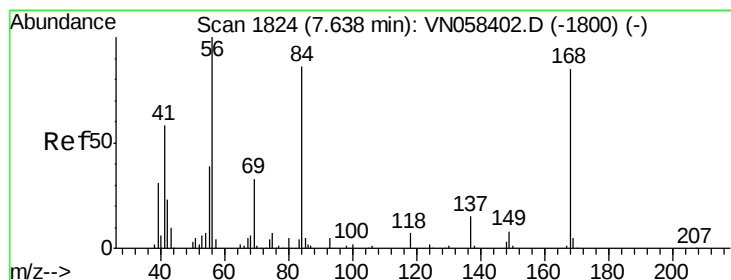
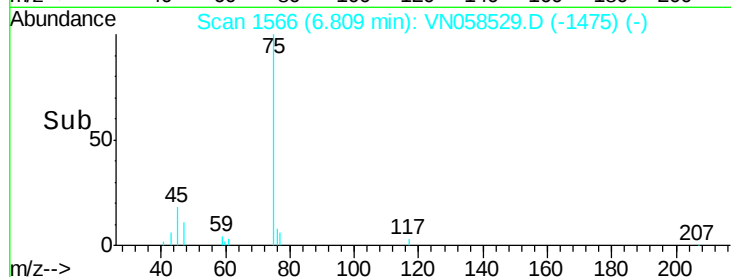
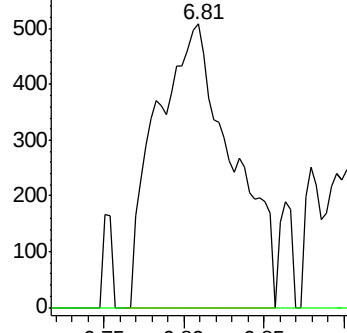
43 100

72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.288 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

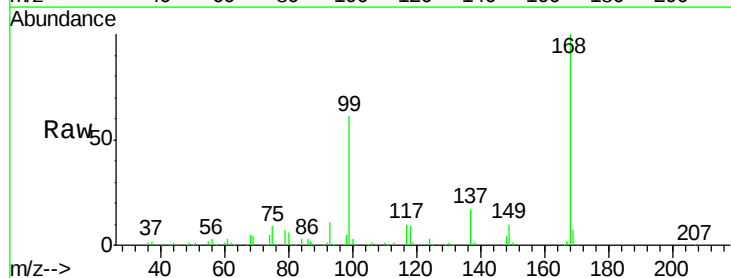
Tgt Ion: 56 Resp: 11724

Ion Ratio Lower Upper

56 100

69 147.2 26.2 39.4#

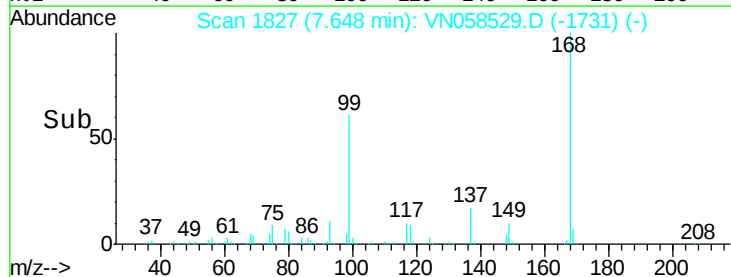
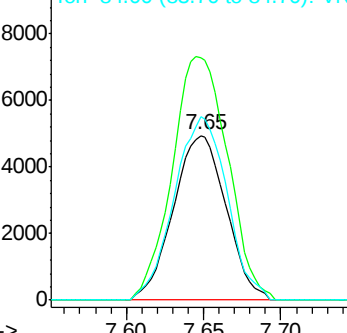
84 111.4 67.6 101.4#

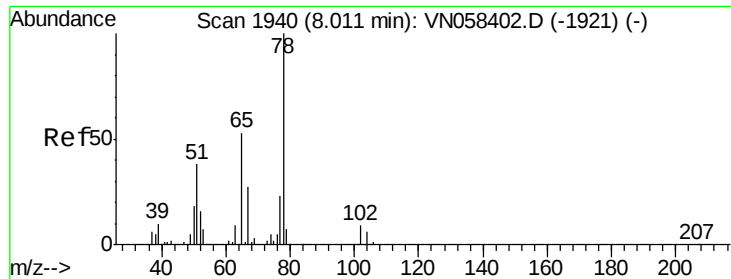


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 48.778 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

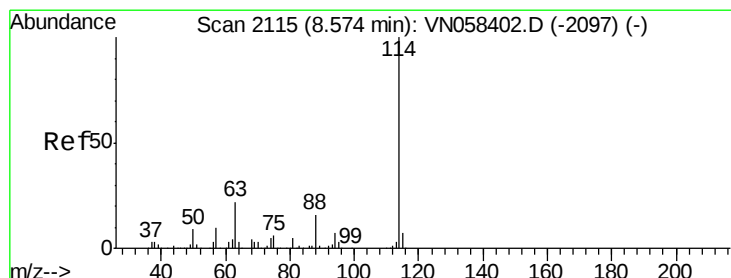
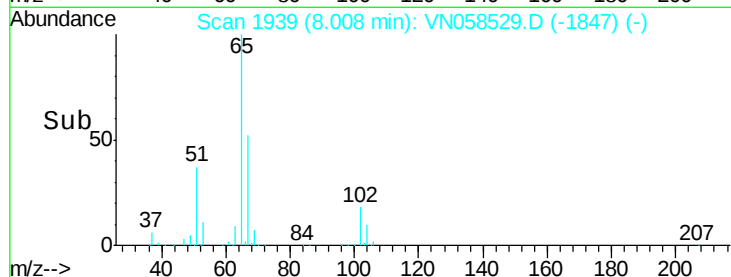
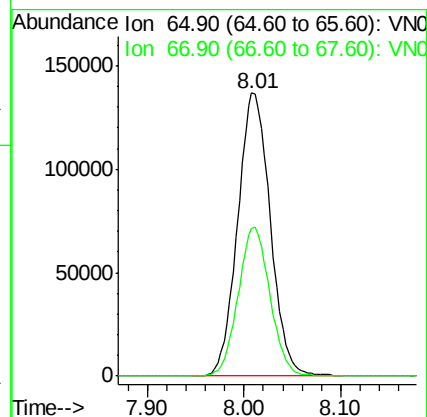
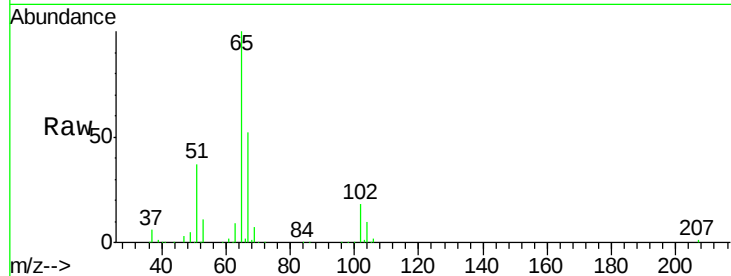
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 320881

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

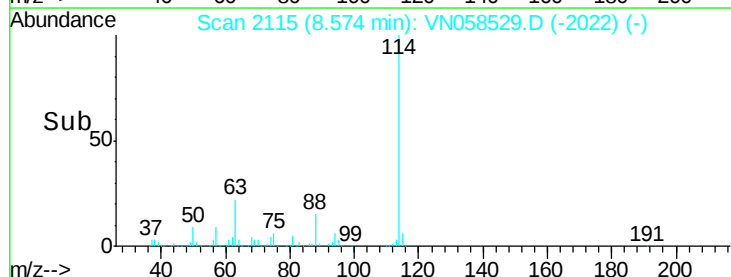
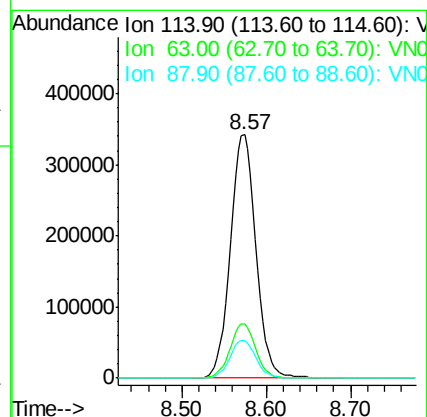
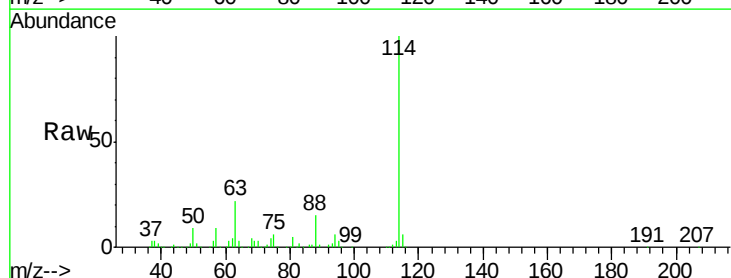
Tgt Ion: 114 Resp: 720810

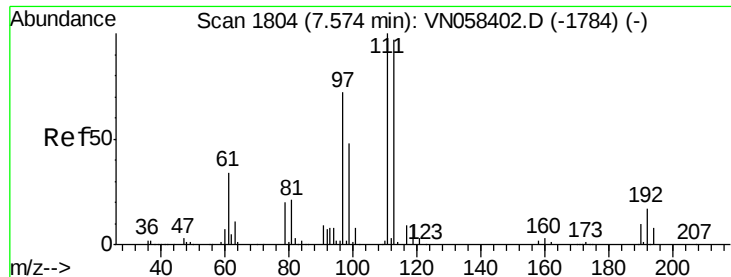
Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.0

88 15.3 0.0 32.2

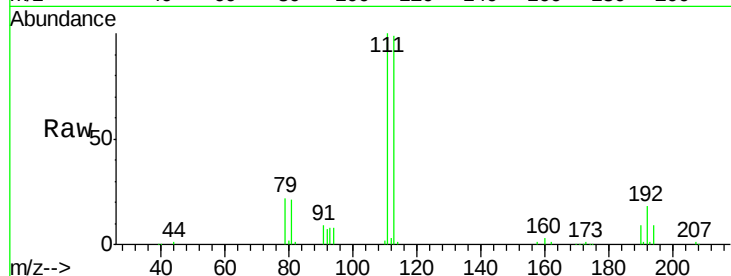




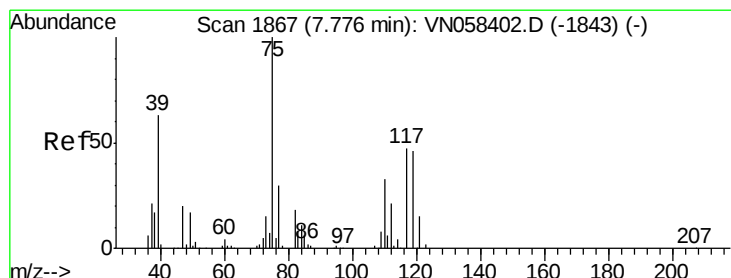
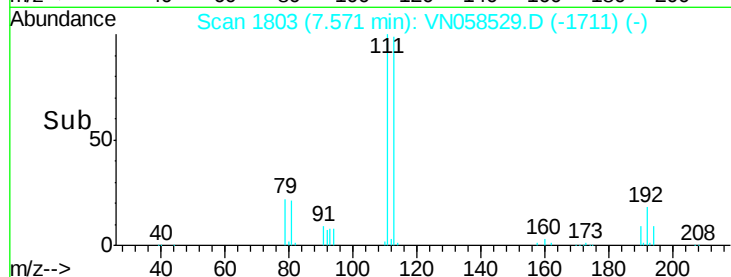
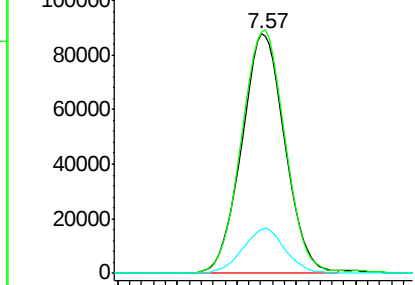
#35
 Dibromofluoromethane
 Concen: 49.824 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058529.D
 Acq: 4 Oct 2019 11:03

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 220113
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.4 125.2
 192 18.4 14.9 22.3

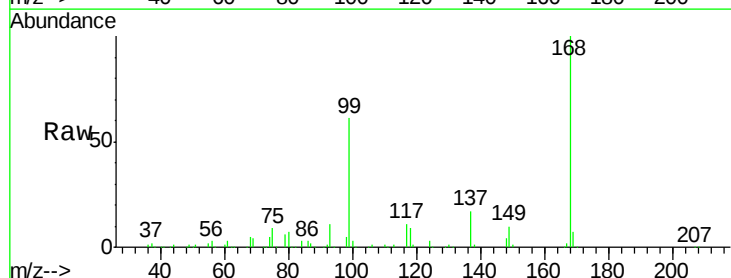


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

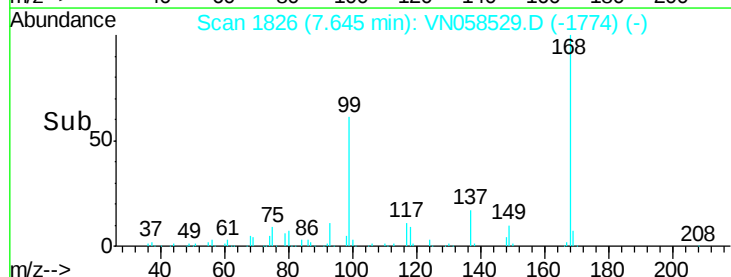
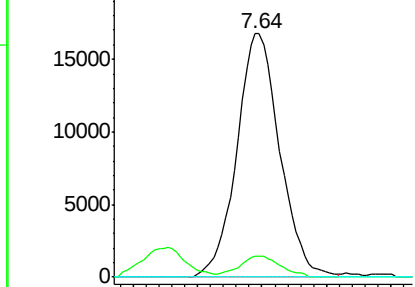


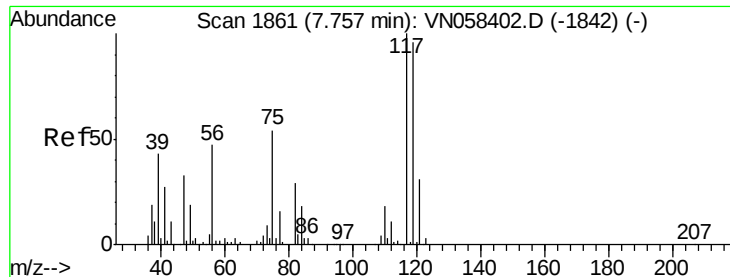
#36
 1,1-Dichloropropene
 Concen: 5.635 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN058529.D
 Acq: 4 Oct 2019 11:03

Tgt Ion: 75 Resp: 38838
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.4 49.2#
 77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 7.399 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

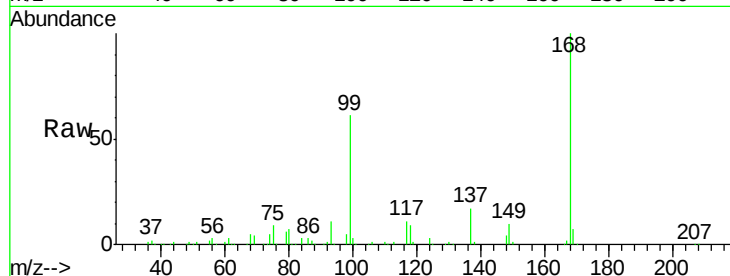
Tot Ion:117 Resp: 46033

Ion Ratio Lower Upper

117 100

119 5.9 76.6 115.0#

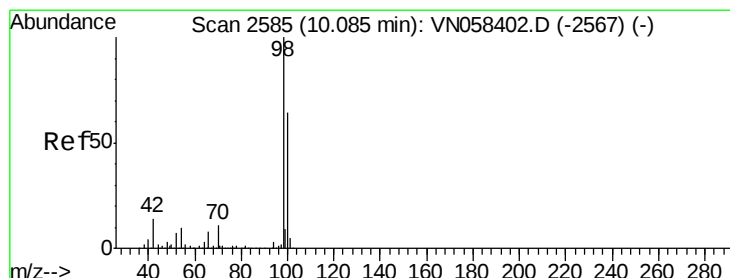
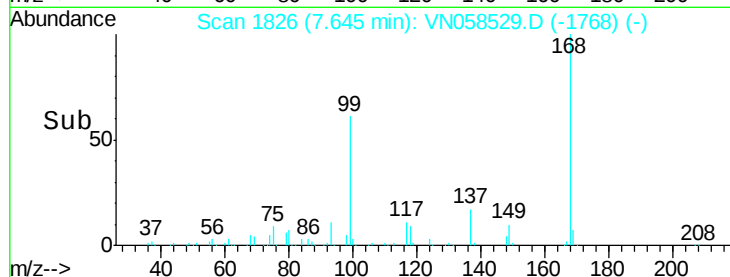
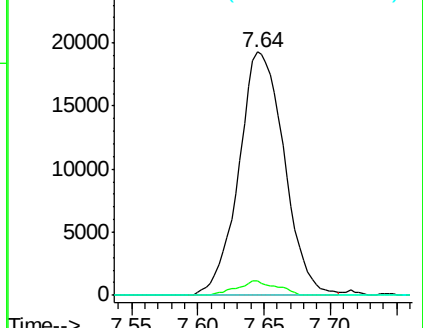
121 0.0 24.7 37.1#



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: 52.484 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058529.D

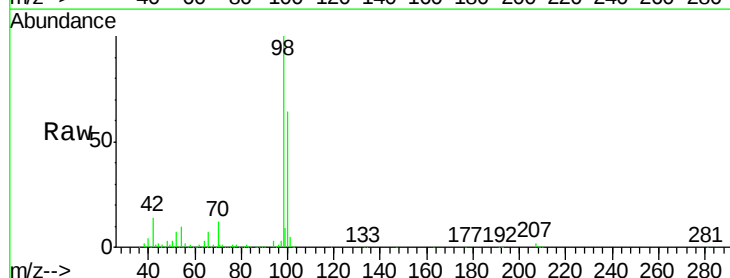
Acq: 4 Oct 2019 11:03

Tgt Ion: 98 Resp: 908294

Ion Ratio Lower Upper

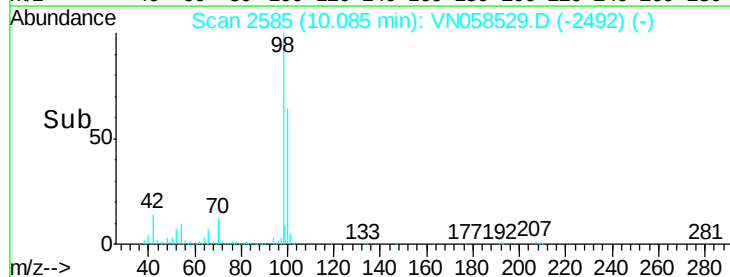
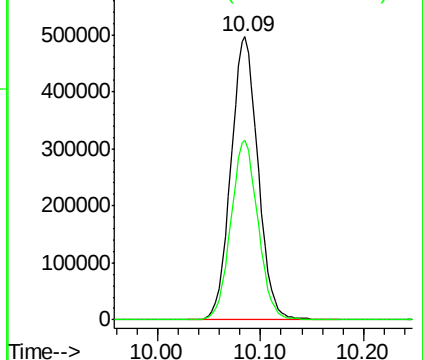
98 100

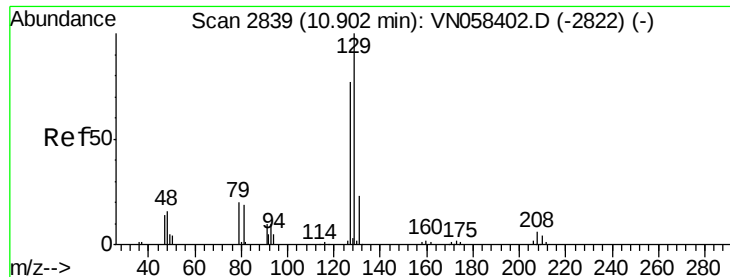
100 63.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

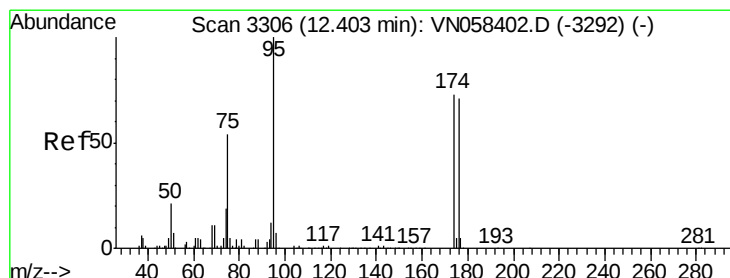
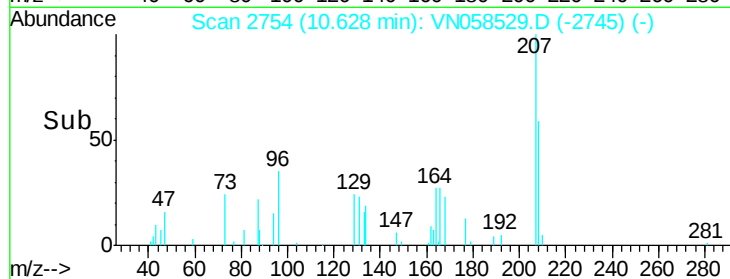
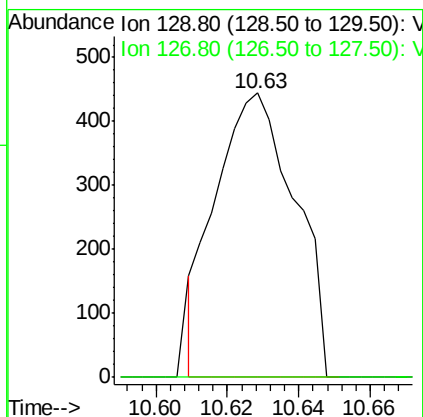
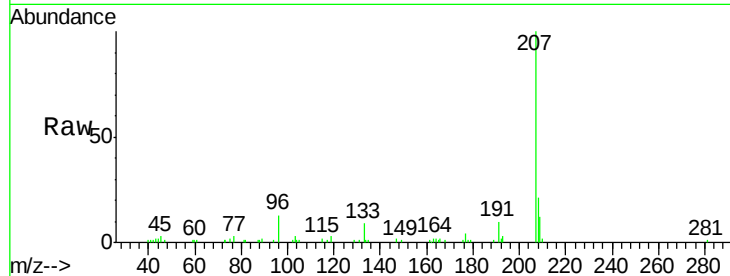




#60
 Dibromochloromethane
 Concen: Below Cal
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058529.D
 Acq: 4 Oct 2019 11:03

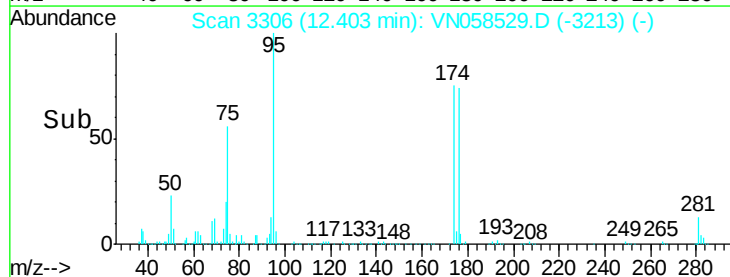
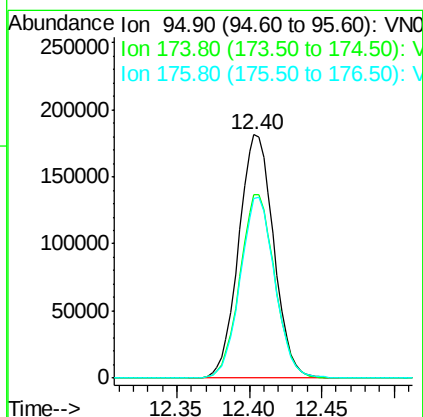
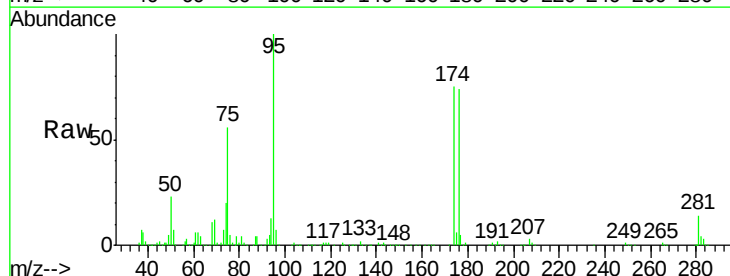
Instrument :
 MSVOA_N
 ClientSampleId :

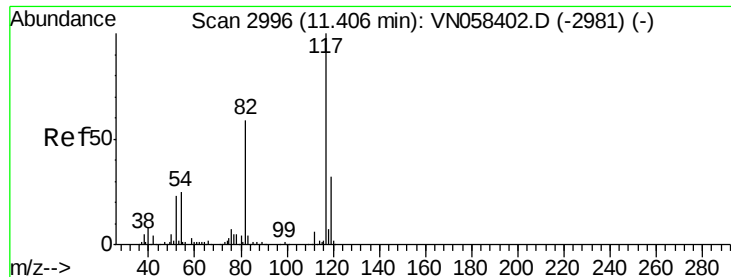
Tot Ion:129 Resp: 682
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.3 114.8#



#62
 4-Bromofluorobenzene
 Concen: 48.693 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058529.D
 Acq: 4 Oct 2019 11:03

Tgt Ion: 95 Resp: 304701
 Ion Ratio Lower Upper
 95 100
 174 75.0 0.0 150.6
 176 73.5 0.0 146.2

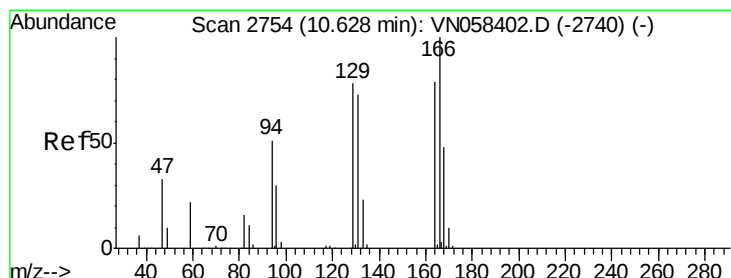
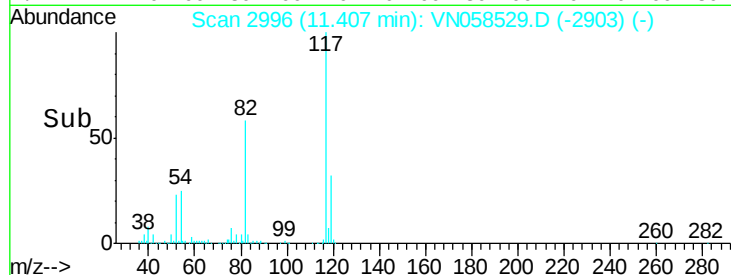
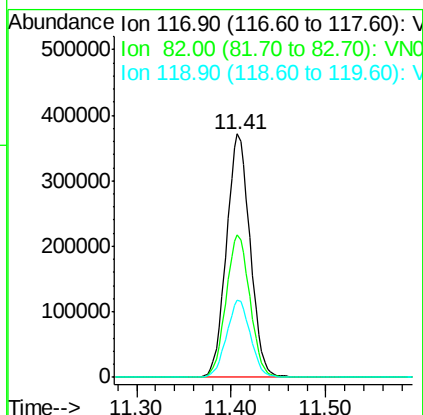
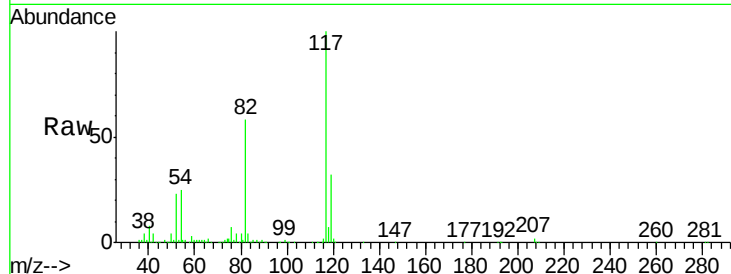




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058529.D
Acq: 4 Oct 2019 11:03

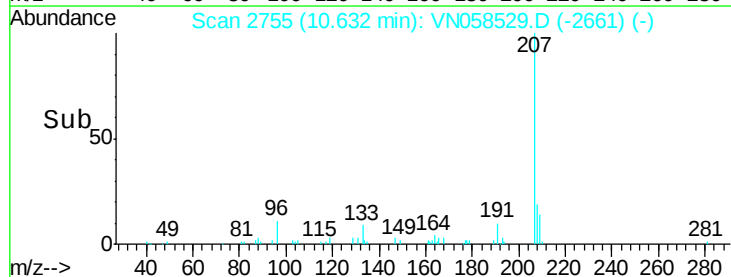
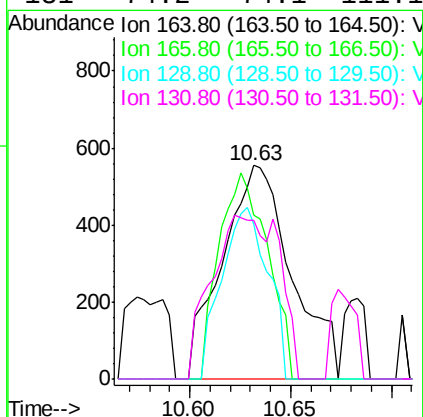
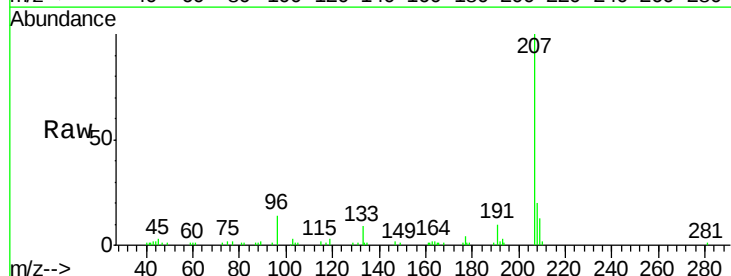
Instrument :
MSVOA_N
ClientSampleId :

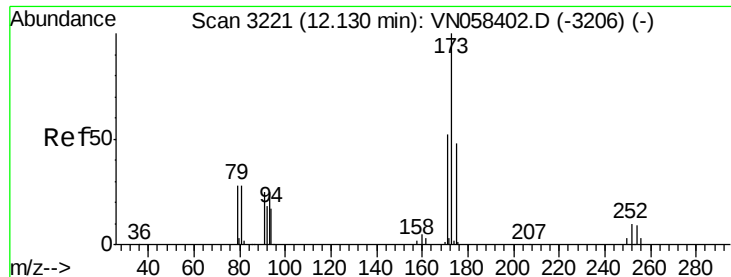
Tot Ion:117 Resp: 645378
Ion Ratio Lower Upper
117 100
82 58.3 47.4 71.0
119 31.8 25.5 38.3



#64
Tetrachloroethene
Concen: 0.325 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058529.D
Acq: 4 Oct 2019 11:03

Tgt Ion:164 Resp: 1332
Ion Ratio Lower Upper
164 100
166 76.8 101.1 151.7#
129 72.4 79.2 118.8#
131 74.2 74.1 111.1





#71

Bromoform

Concen: 0.990 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

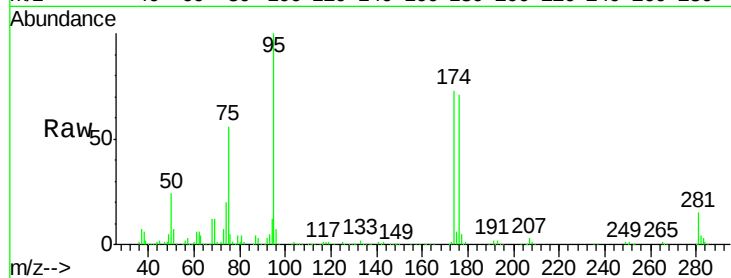
Tot Ion:173 Resp: 894

Ion Ratio Lower Upper

173 100

175 1715.9 24.3 73.0#

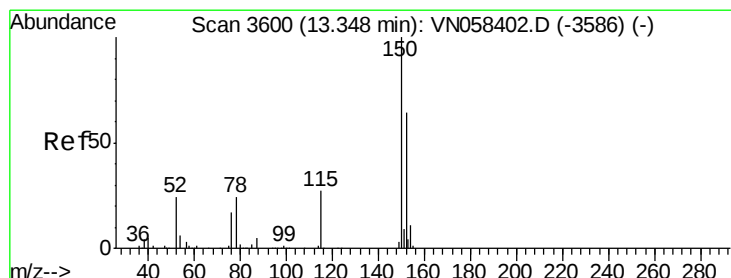
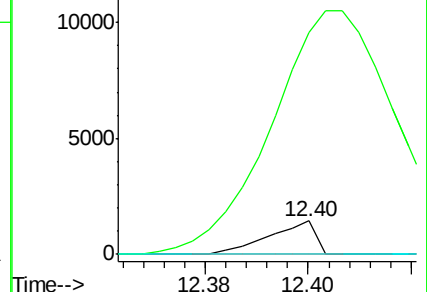
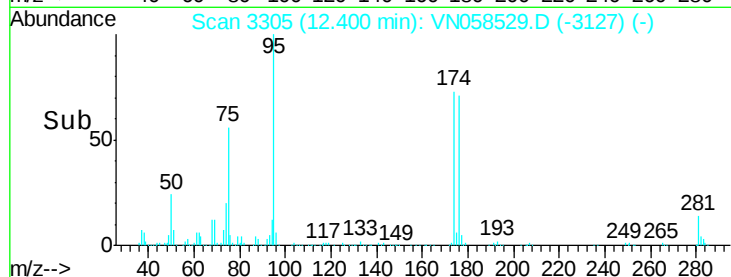
254 0.0 0.1 0.1#



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: VN058529.D

Acq: 4 Oct 2019 11:03

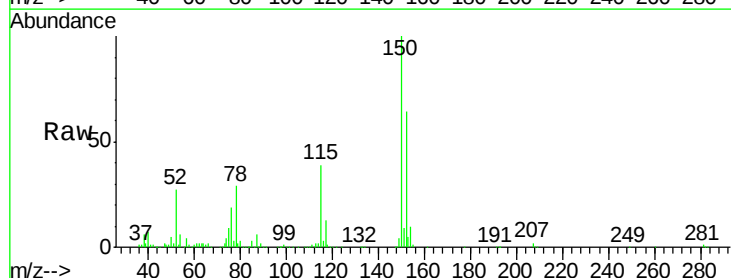
Tgt Ion:152 Resp: 270532

Ion Ratio Lower Upper

152 100

115 61.5 30.0 90.0

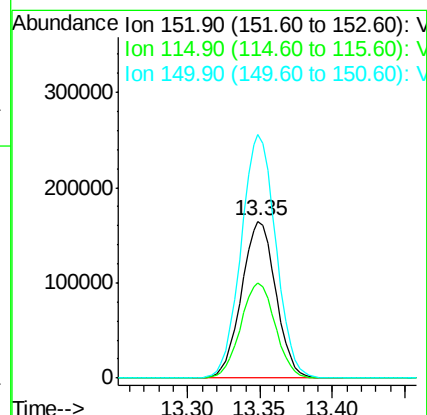
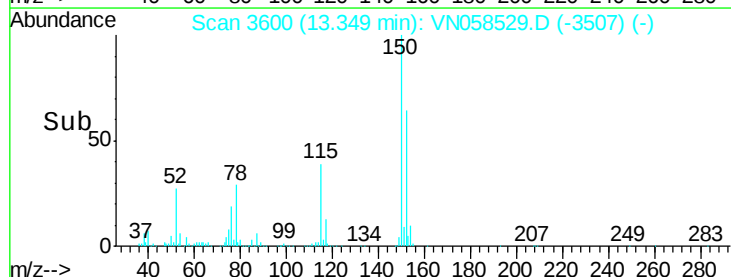
150 157.2 0.0 348.2

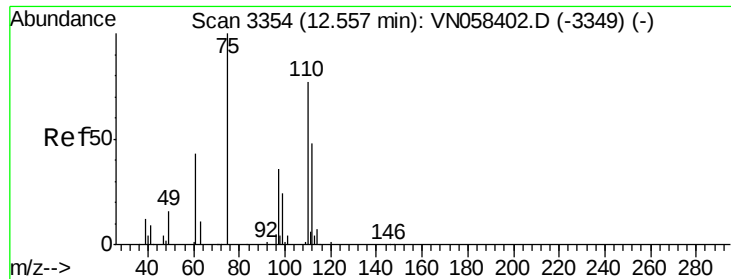


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.152 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

Instrument :

MSVOA_N

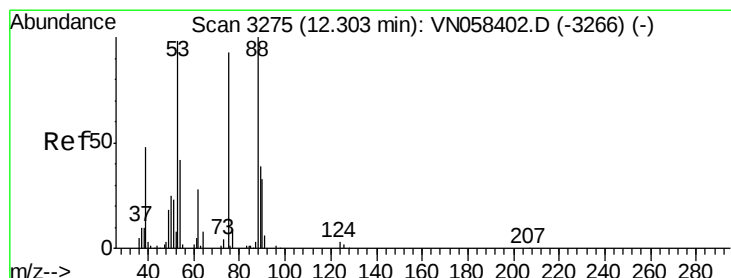
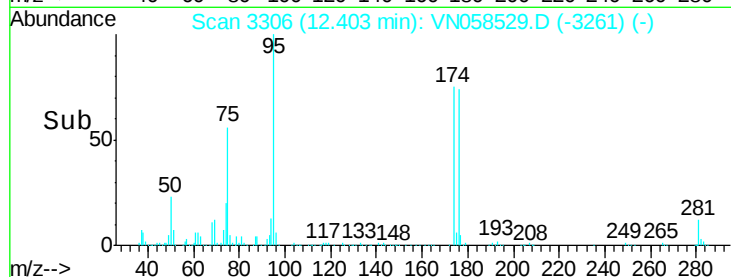
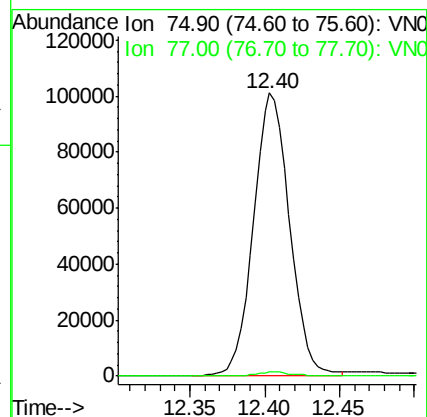
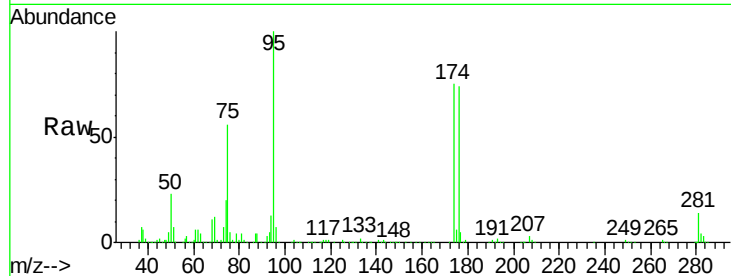
ClientSampled :

Tot Ion: 75 Resp: 168756

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.725 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

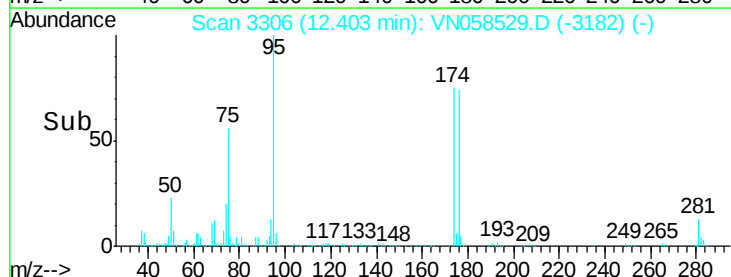
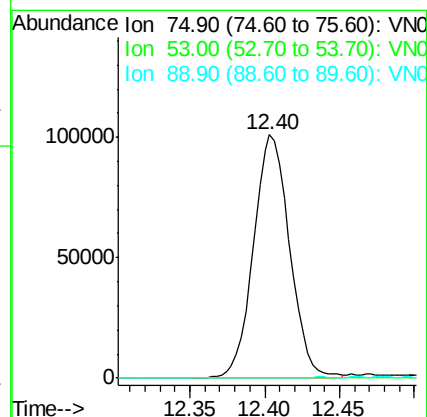
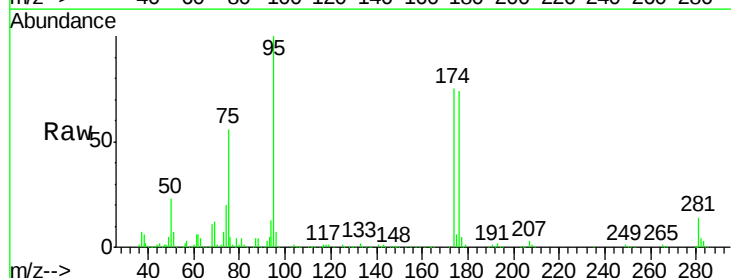
Tgt Ion: 75 Resp: 168756

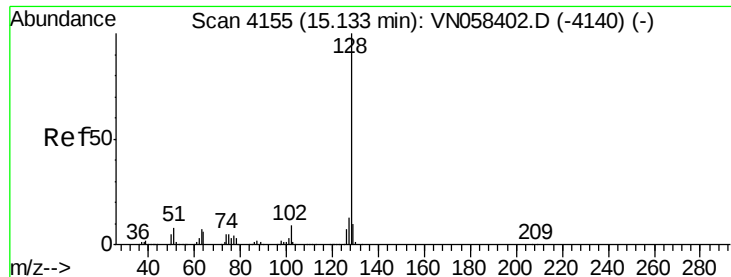
Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.1 35.0 52.4#





#95

Naphthalene

Concen: 0.219 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

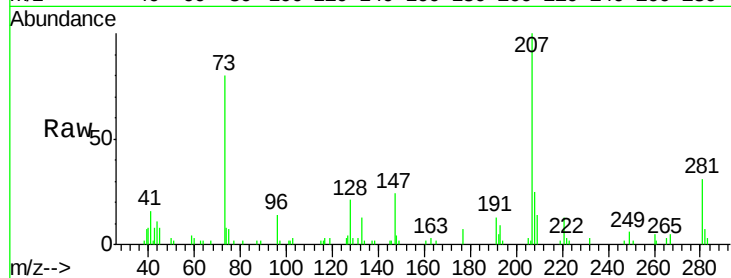
Tot Ion:128 Resp: 3283

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

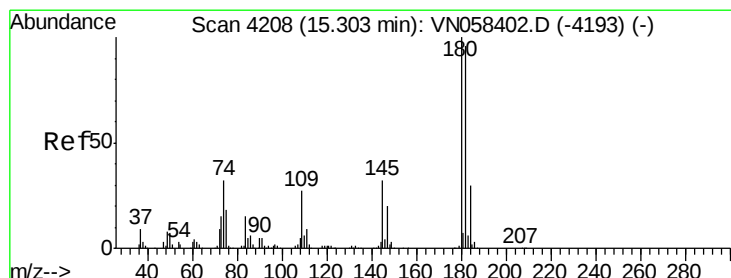
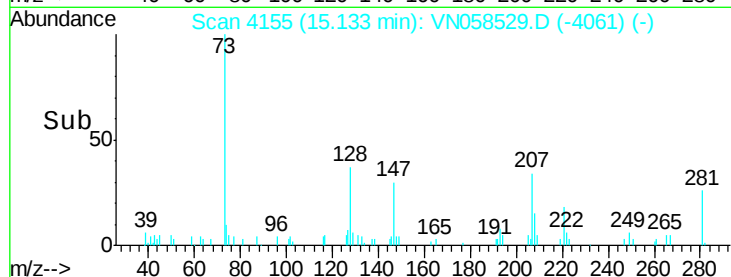
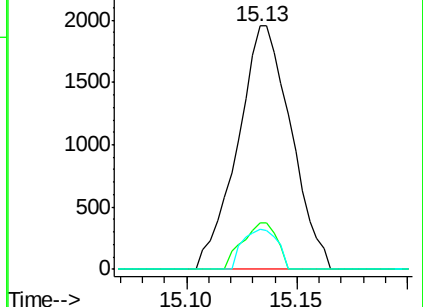
129 10.7 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.217 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.01 min

Lab File: VN058529.D

Acq: 4 Oct 2019 11:03

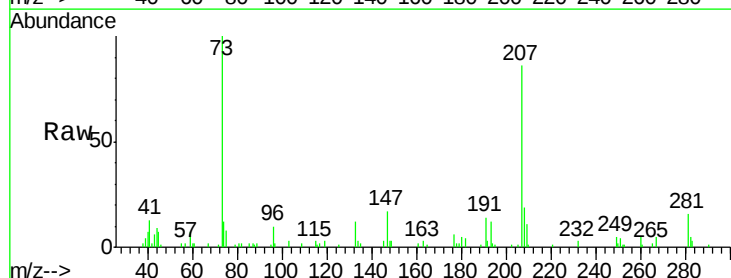
Tgt Ion:180 Resp: 1094

Ion Ratio Lower Upper

180 100

182 95.2 48.3 144.9

145 75.1 16.1 48.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

