

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058207.D
 Acq On : 19 Sep 2019 16:41
 Operator : JC/SP
 Sample : VN0919WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 04:22:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	510049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	828521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	708790	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	290602	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	365831	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.58	113	259256	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
50) Toluene-d8	10.08	98	1033998	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	12.40	95	334784	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

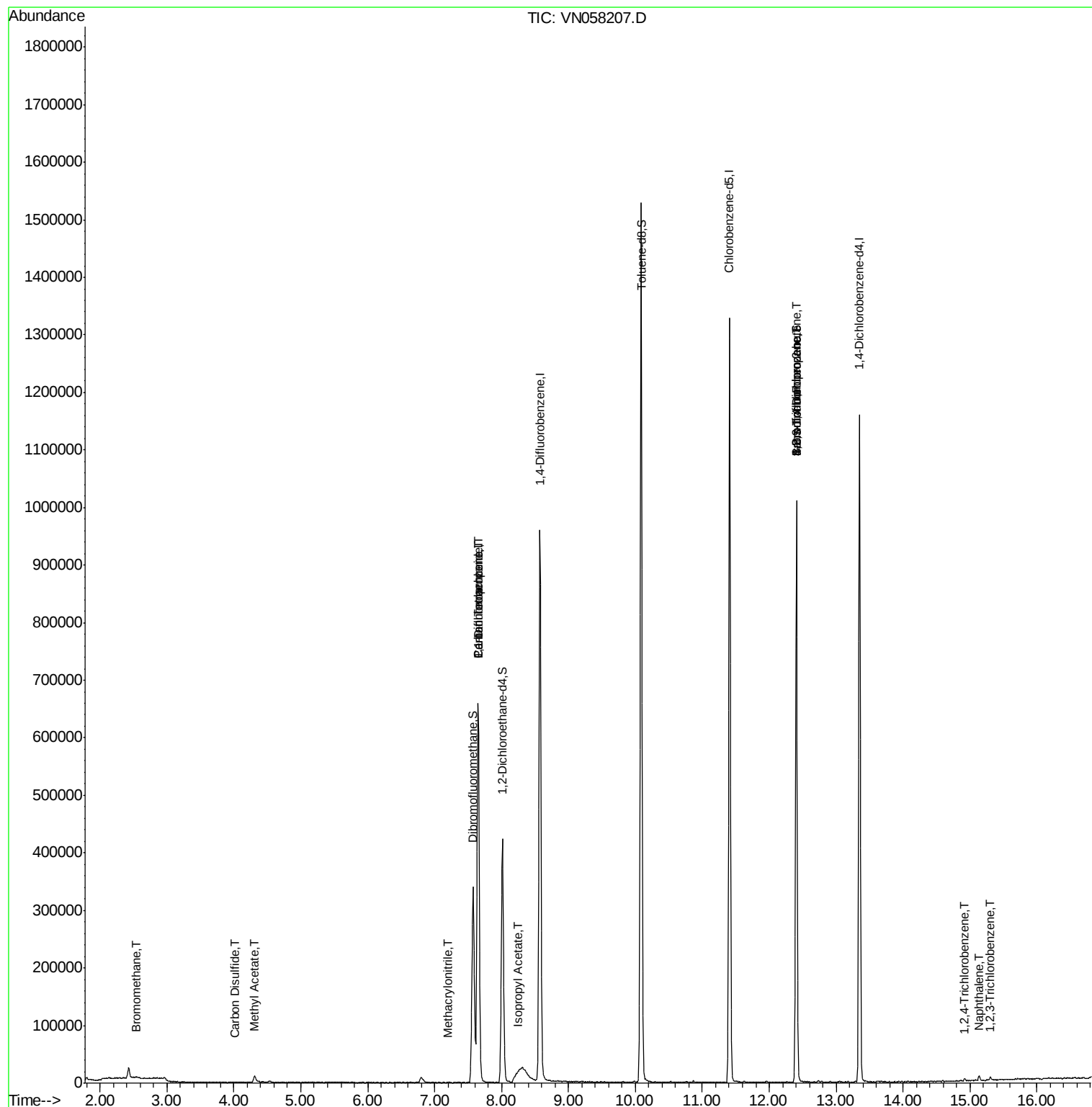
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	488	Below Cal		90
4) Vinyl Chloride	2.35	62	62	Below Cal	#	43
5) Bromomethane	2.55	94	367	0.916	ug/l #	77
6) Chloroethane	2.76	64	69	Below Cal	#	44
17) Carbon Disulfide	4.03	76	277	0.333	ug/l #	74
18) Methyl Acetate	4.31	43	20740	3.269	ug/l	95
31) Cyclohexane	7.64	56	12861	Below Cal	#	8
36) 1,1-Dichloropropene	7.65	75	45041	7.538	ug/l #	51
38) Carbon Tetrachloride	7.65	117	52027	8.662	ug/l #	14
41) Methacrylonitrile	7.20	41	61	0.930	ug/l #	100
43) Isopropyl Acetate	8.24	43	21834	1.885	ug/l #	58
71) Bromoform	12.40	173	346	3.691	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	185845	35.733	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	185845	99.838	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	1685	0.315	ug/l	77
95) Naphthalene	15.14	128	7753	0.559	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.30	180	1518	0.300	ug/l	85

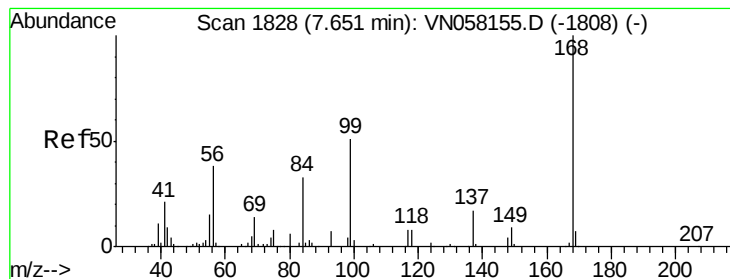
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058207.D

Acq: 19 Sep 2019 16:41

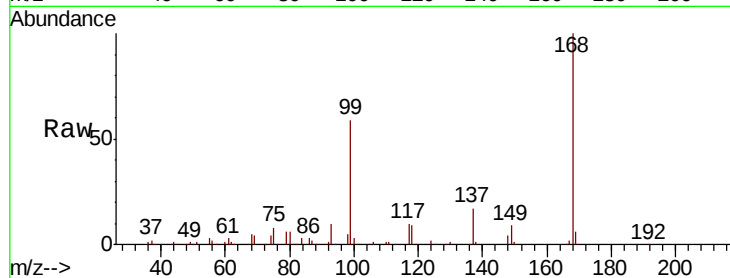
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 510049

Ion Ratio Lower Upper

168 100

99 59.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

100000

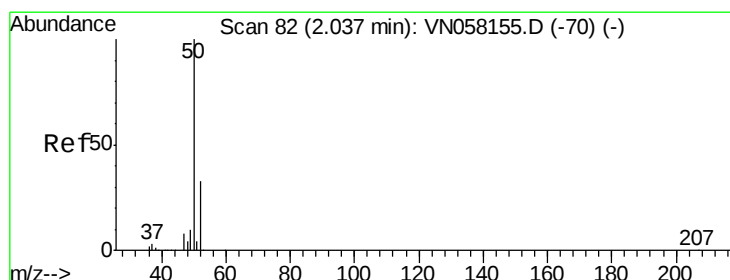
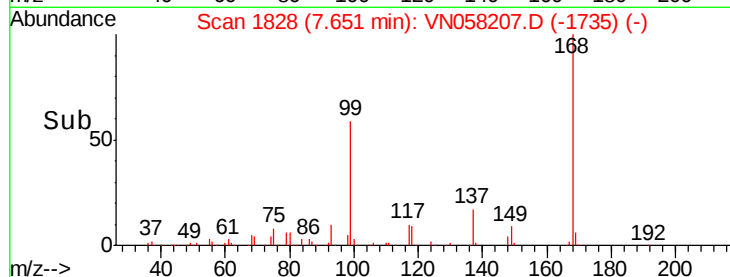
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058207.D

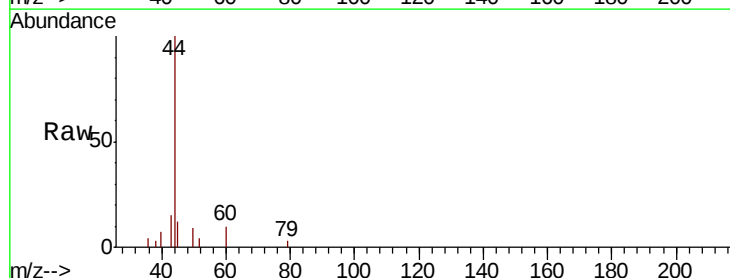
Acq: 19 Sep 2019 16:41

Tgt Ion: 50 Resp: 488

Ion Ratio Lower Upper

50 100

52 38.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

500

400

300

200

100

0

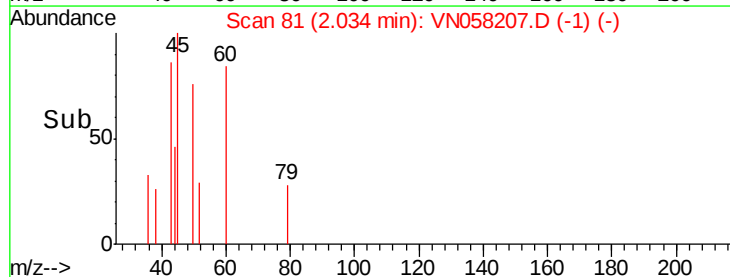
2.00

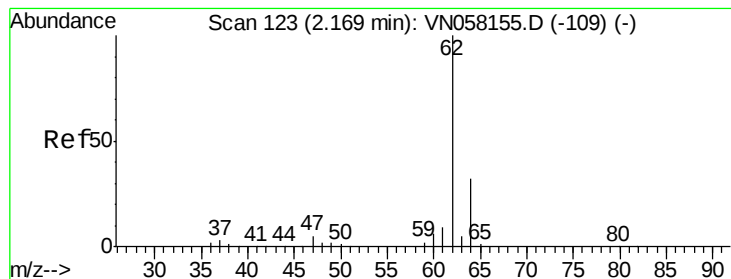
2.02

2.04

2.06

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.35 min Scan# 179

Delta R.T. 0.18 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

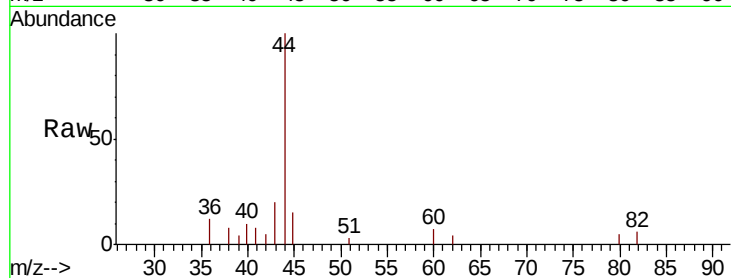
ClientSampled :

Tot Ion: 62 Resp: 62

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.35

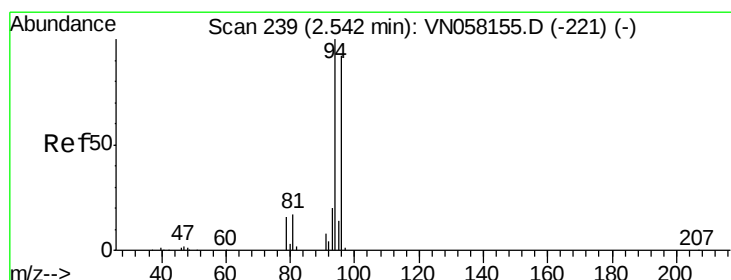
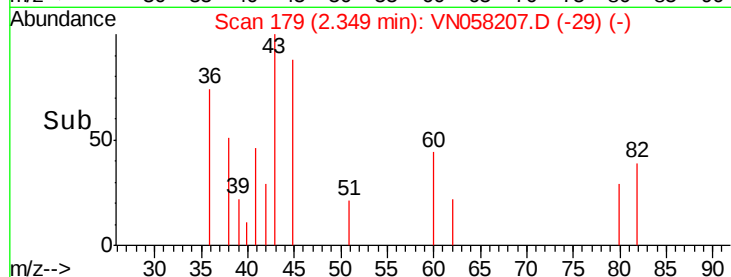
150

100

50

0

Time-->



#5

Bromomethane

Concen: 0.916 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058207.D

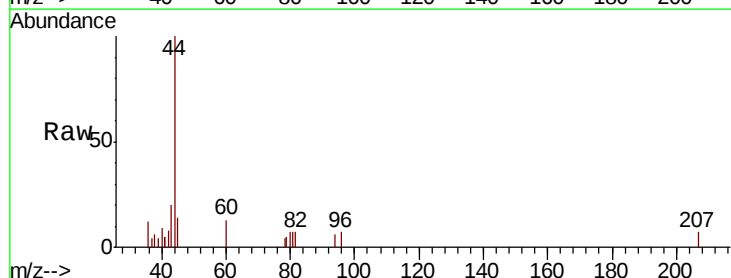
Acq: 19 Sep 2019 16:41

Tgt Ion: 94 Resp: 367

Ion Ratio Lower Upper

94 100

96 113.7 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

500

400

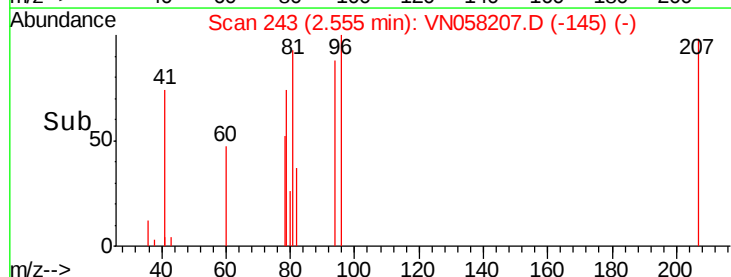
300

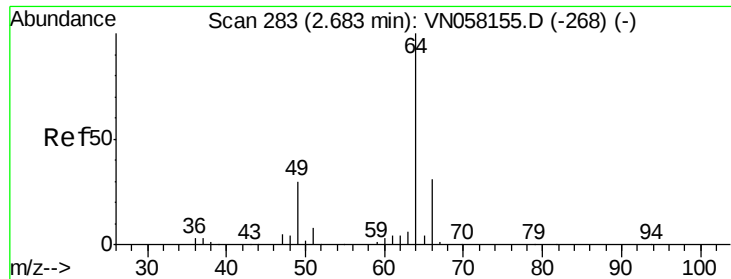
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.76 min Scan# 307

Delta R.T. 0.08 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

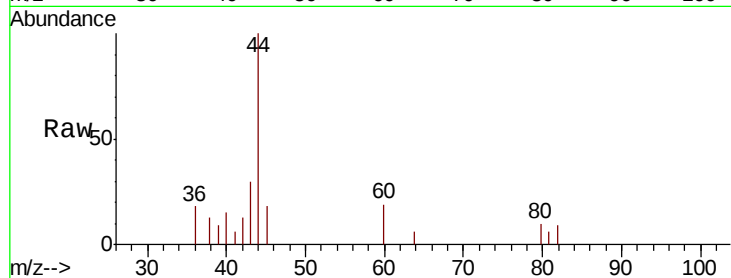
ClientSampled :

Tot Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.76

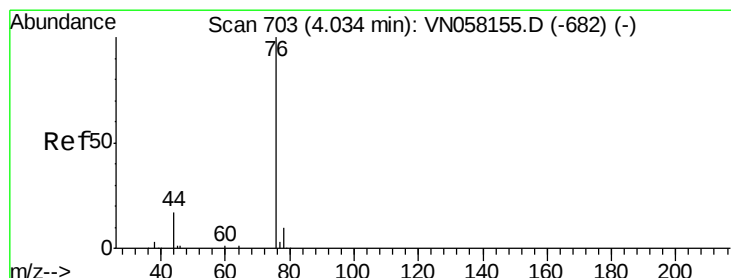
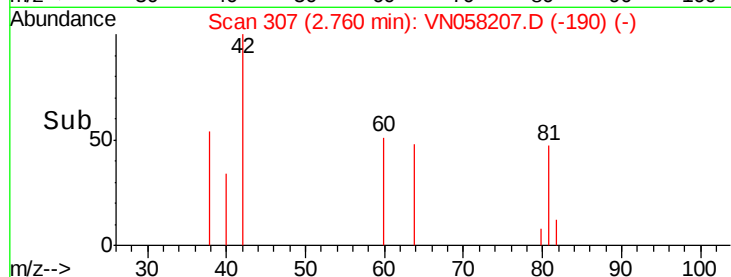
150

100

50

0

Time-->



#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058207.D

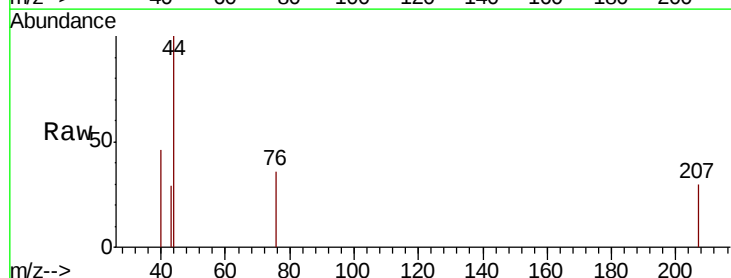
Acq: 19 Sep 2019 16:41

Tgt Ion: 76 Resp: 277

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

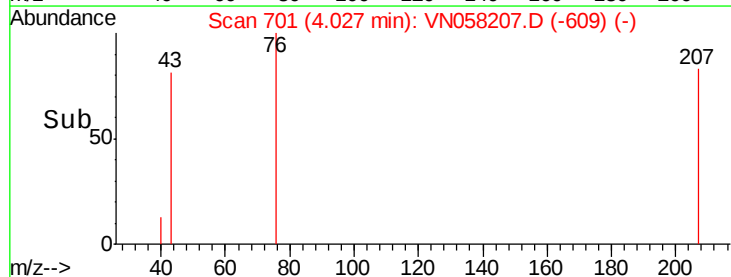
300

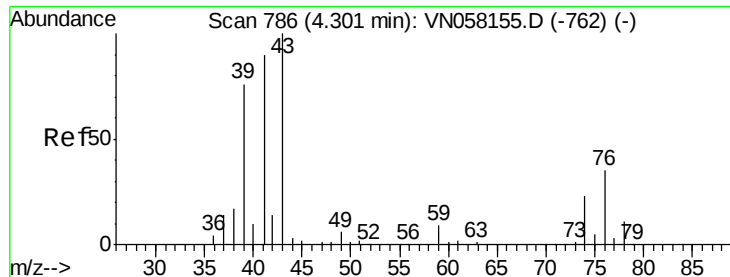
200

100

0

Time-->

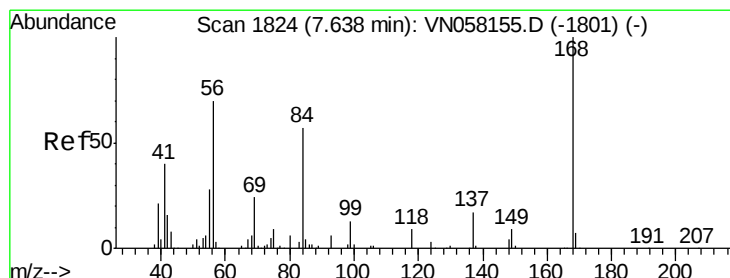
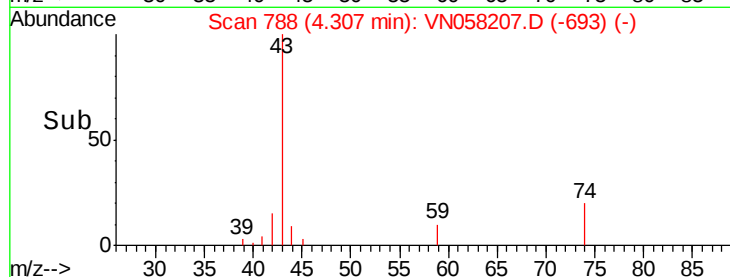
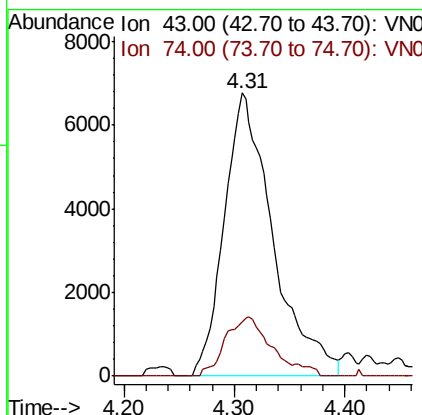
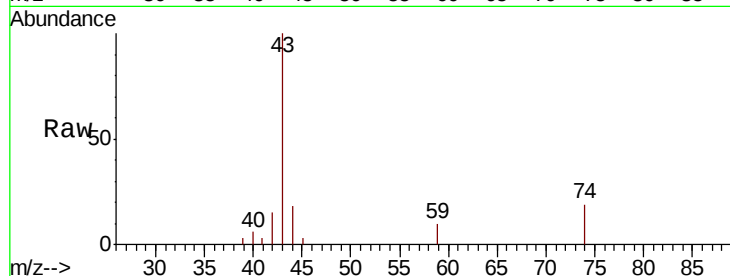




#18
Methyl Acetate
Concen: 3.269 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058207.D
Acq: 19 Sep 2019 16:41

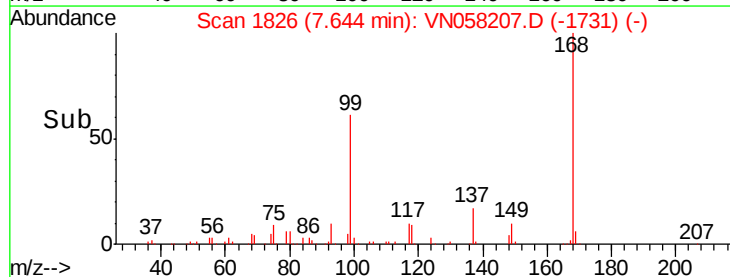
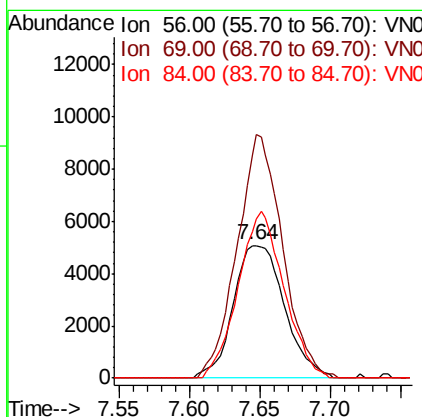
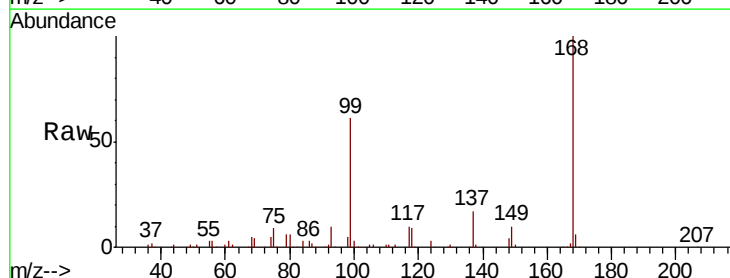
Instrument :
MSVOA_N
ClientSampleId :

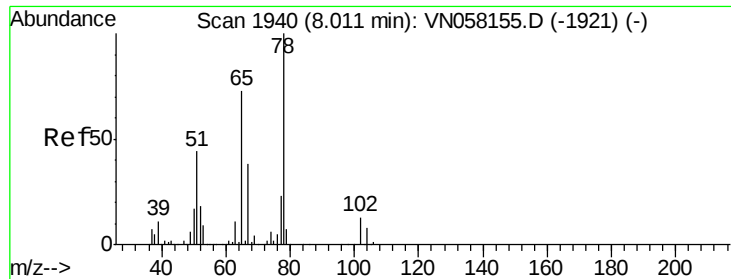
Tot Ion: 43 Resp: 20740
Ion Ratio Lower Upper
43 100
74 20.0 18.0 27.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058207.D
Acq: 19 Sep 2019 16:41

Tgt Ion: 56 Resp: 12861
Ion Ratio Lower Upper
56 100
69 168.4 27.3 40.9#
84 110.4 65.0 97.4#





#33

1,2-Dichloroethane-d4

Concen: 51.497 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

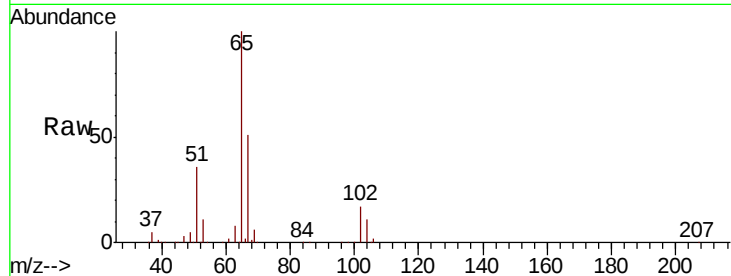
ClientSampleId :

Tot Ion: 65 Resp: 365831

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN058155.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058155.D (-1921) (-)

8.01

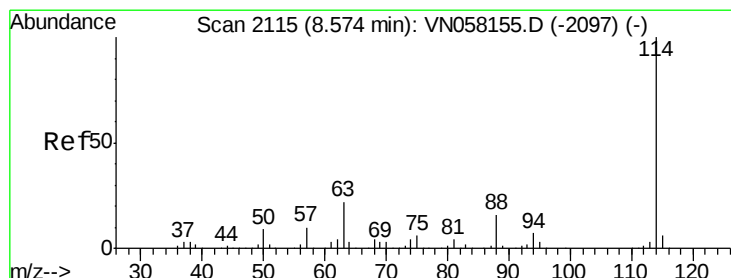
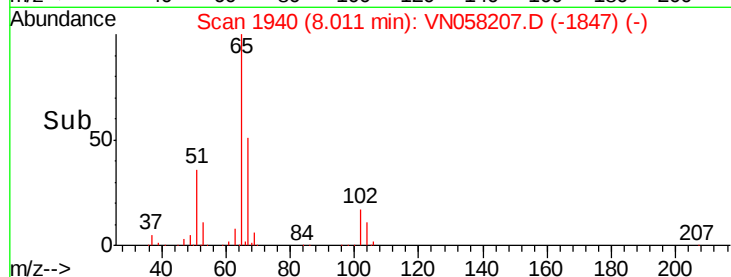
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

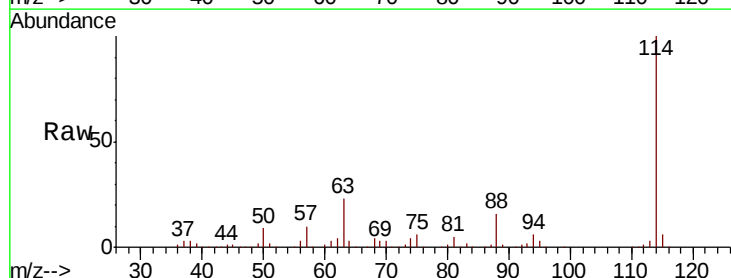
Tgt Ion: 114 Resp: 828521

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.2

88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN058155.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058155.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058155.D (-2097) (-)

8.57

500000

400000

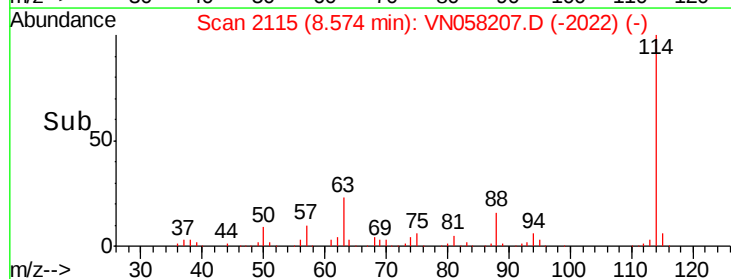
300000

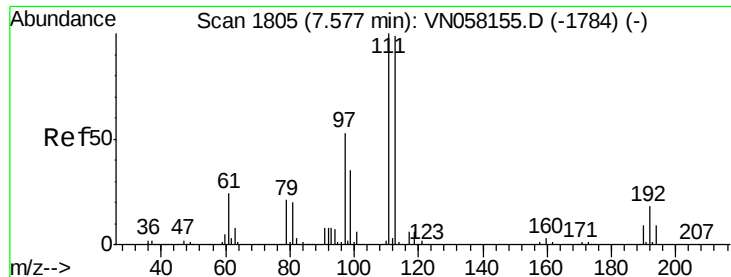
200000

100000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 51.473 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :
MSVOA_N
ClientSampled :

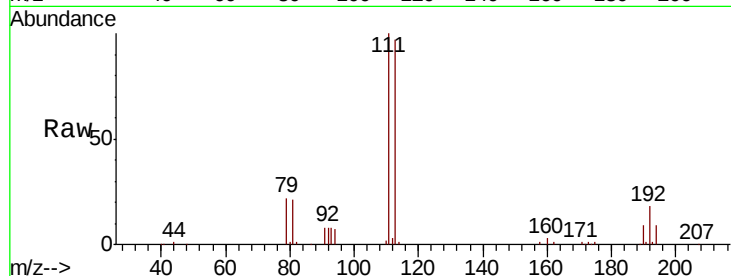
Tot Ion:113 Resp: 259256

Ion Ratio Lower Upper

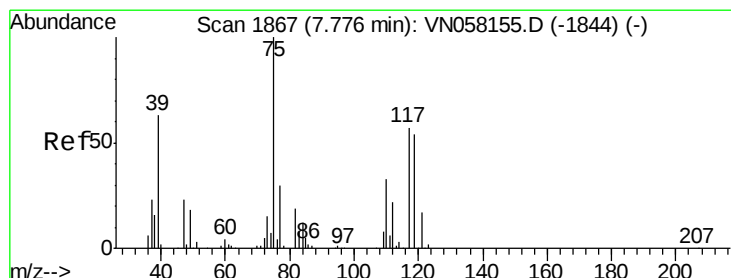
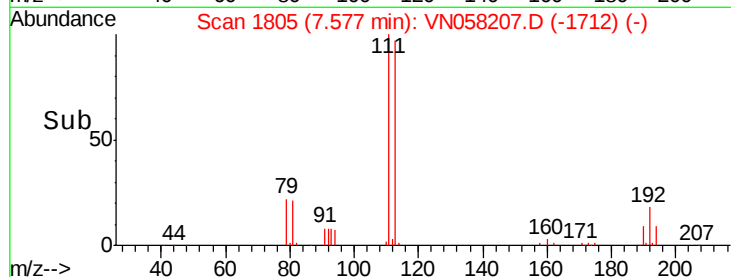
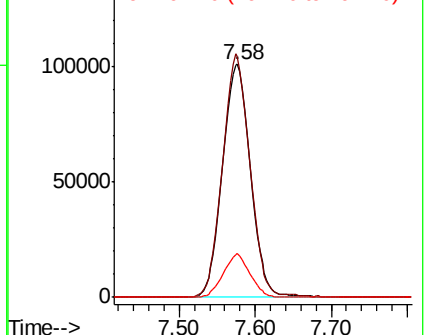
113 100

111 101.2 81.8 122.6

192 17.8 14.5 21.7



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: 7.538 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

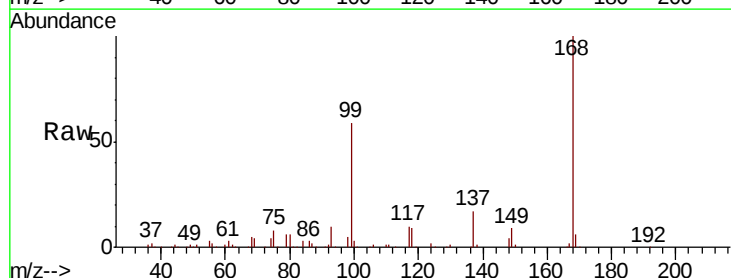
Tgt Ion: 75 Resp: 45041

Ion Ratio Lower Upper

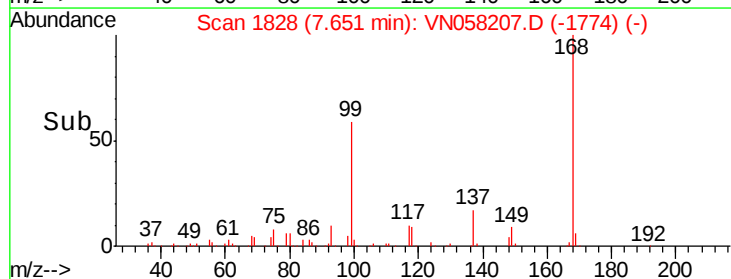
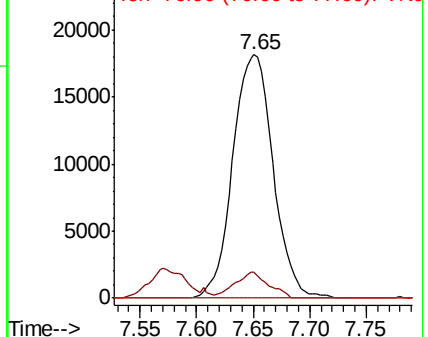
75 100

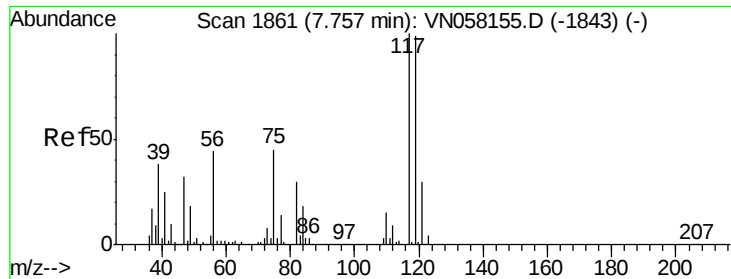
110 8.9 16.6 49.7#

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

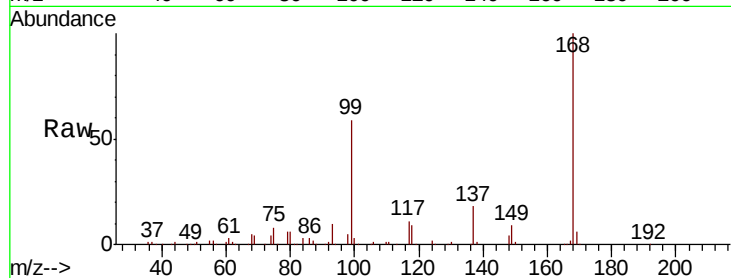




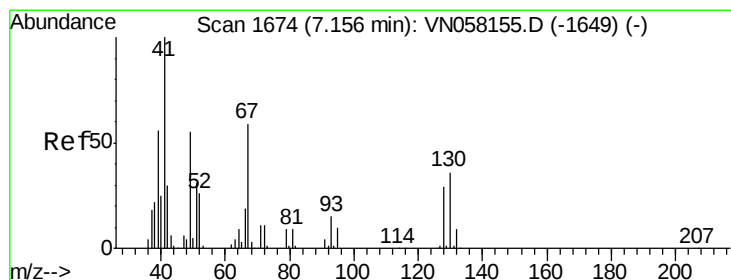
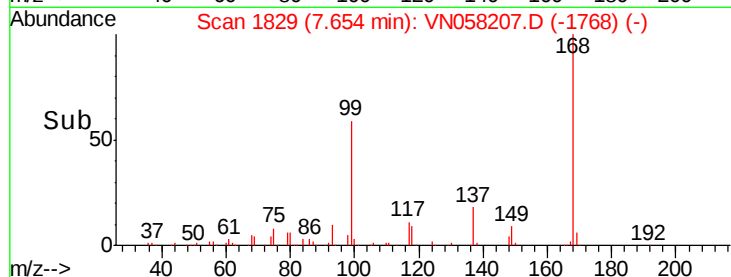
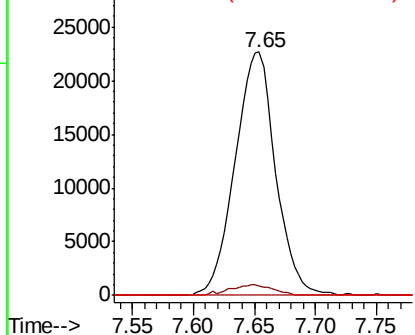
#38
Carbon Tetrachloride
Concen: 8.662 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN058207.D
Acq: 19 Sep 2019 16:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 52027
Ion Ratio Lower Upper
117 100
119 3.9 78.6 117.8#
121 0.0 24.1 36.1#

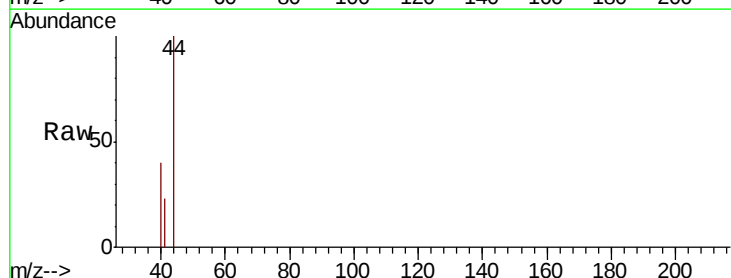


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

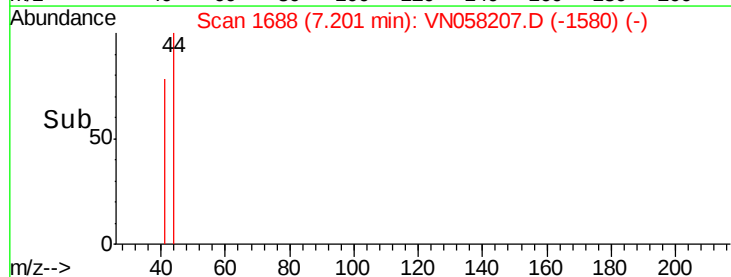
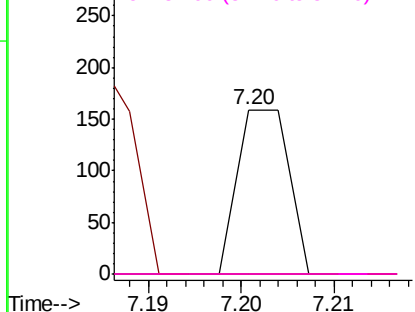


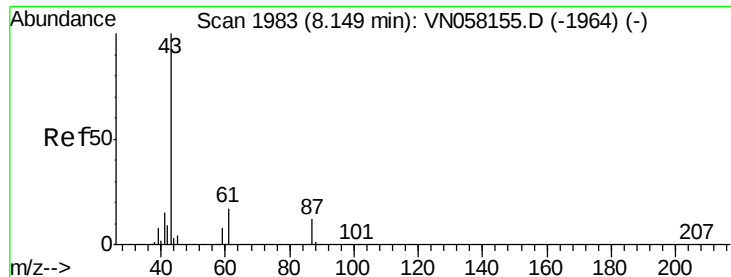
#41
Methacrylonitrile
Concen: 0.930 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.05 min
Lab File: VN058207.D
Acq: 19 Sep 2019 16:41

Tgt Ion: 41 Resp: 61
Ion Ratio Lower Upper
41 100
39 231.1 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 1.885 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.09 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

ClientSampled :

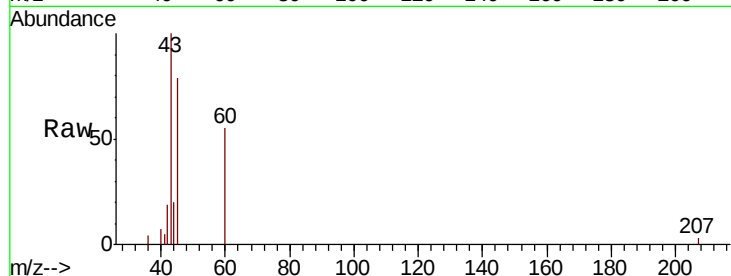
Tot Ion: 43 Resp: 21834

Ion Ratio Lower Upper

43 100

61 1.2 19.7 29.5#

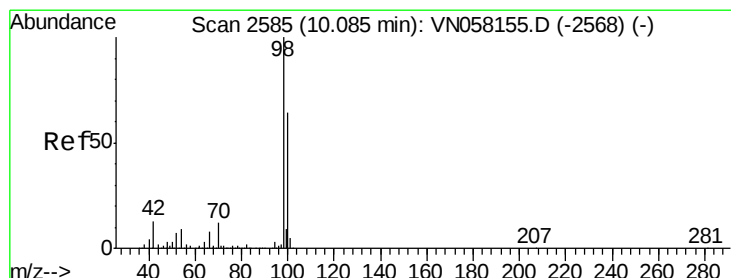
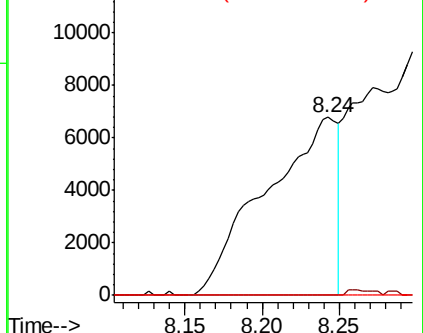
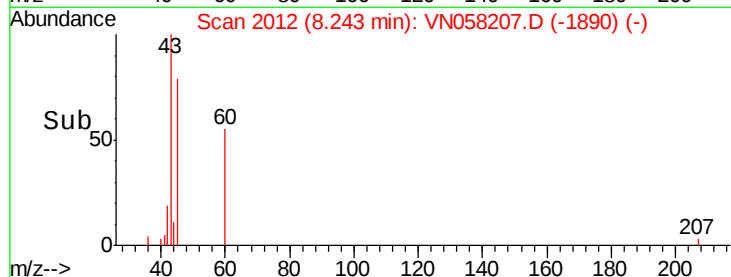
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN058155.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN058155.D (-1964) (-)



#50

Toluene-d8

Concen: 52.690 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058207.D

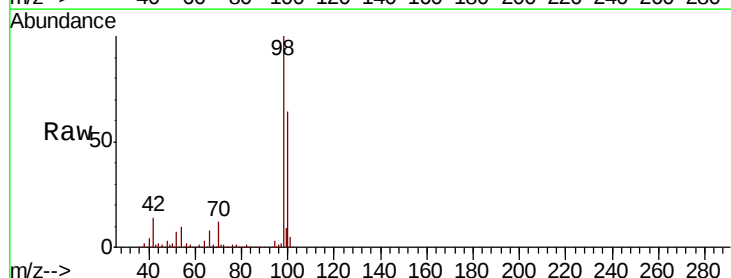
Acq: 19 Sep 2019 16:41

Tgt Ion: 98 Resp: 1033998

Ion Ratio Lower Upper

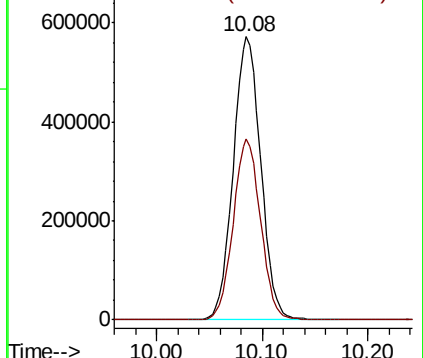
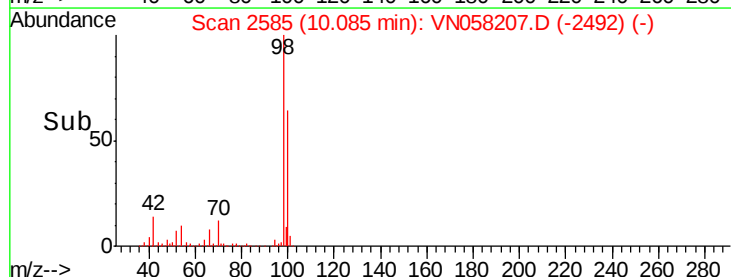
98 100

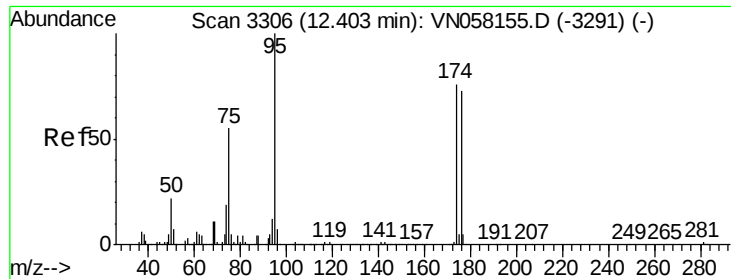
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058155.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058155.D (-2568) (-)





#62

4-Bromofluorobenzene

Concen: 45.926 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

ClientSampled :

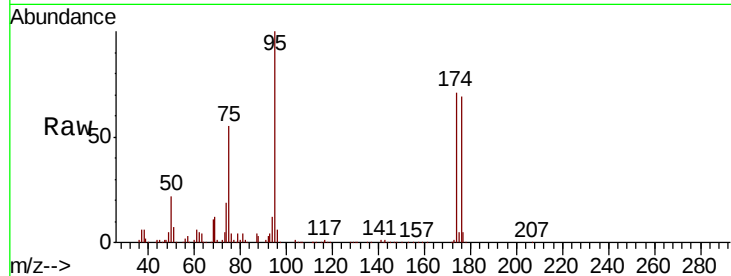
Tot Ion: 95 Resp: 334784

Ion Ratio Lower Upper

95 100

174 74.6 0.0 152.2

176 72.6 0.0 148.0

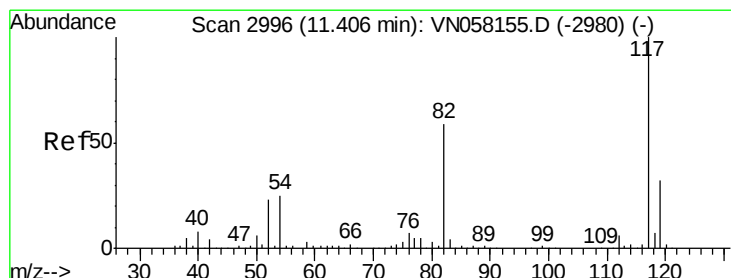
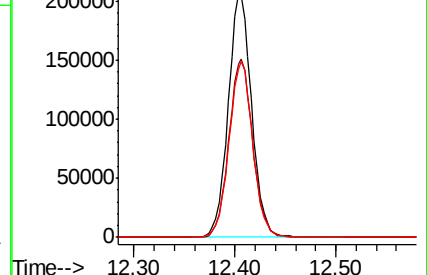
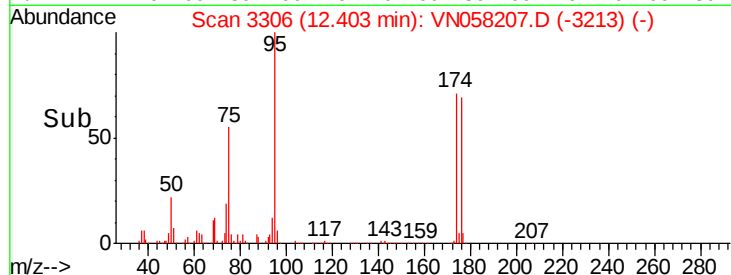


Abundance Ion 94.90 (94.60 to 95.60): VN058207.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN058207.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN058207.D (-2903) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

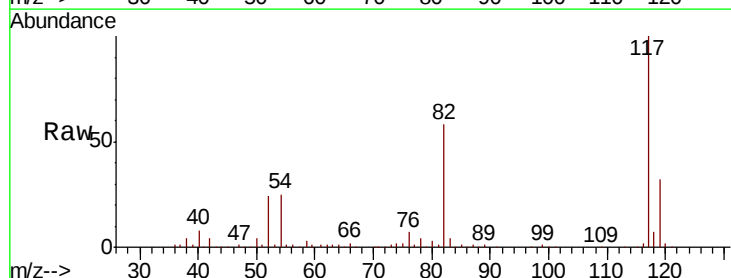
Tgt Ion: 117 Resp: 708790

Ion Ratio Lower Upper

117 100

82 58.5 46.9 70.3

119 31.7 25.3 37.9

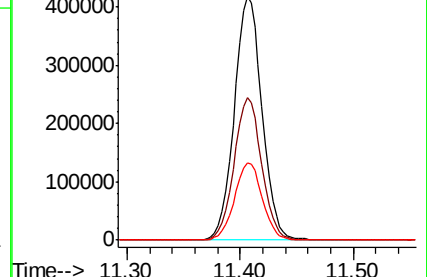
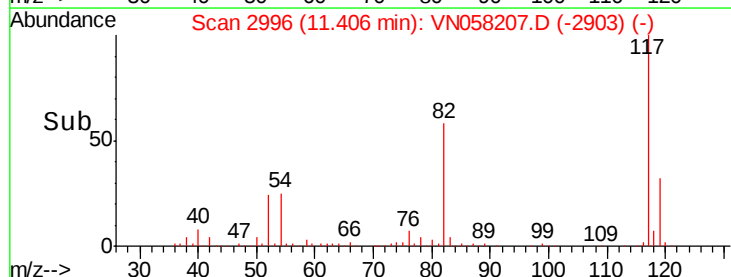


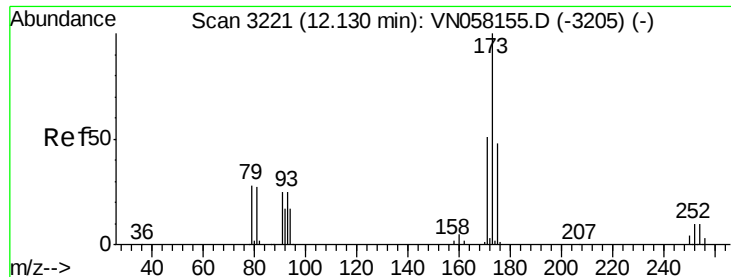
Abundance Ion 116.90 (116.60 to 117.60): VN058207.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058207.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058207.D (-2903) (-)

11.41





#71

Bromoform

Concen: 3.691 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

ClientSampled :

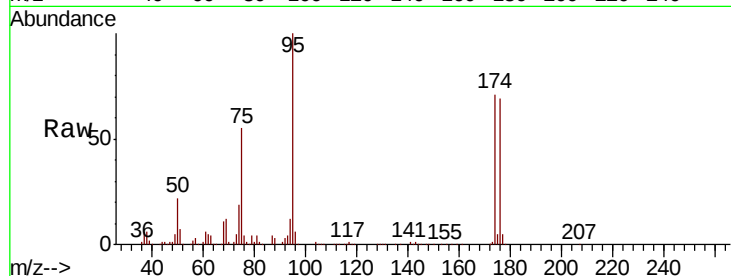
Tot Ion:173 Resp: 346

Ion Ratio Lower Upper

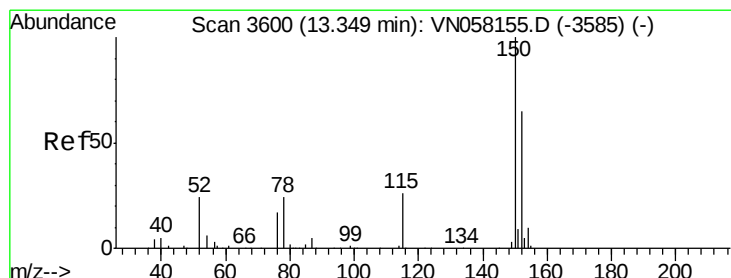
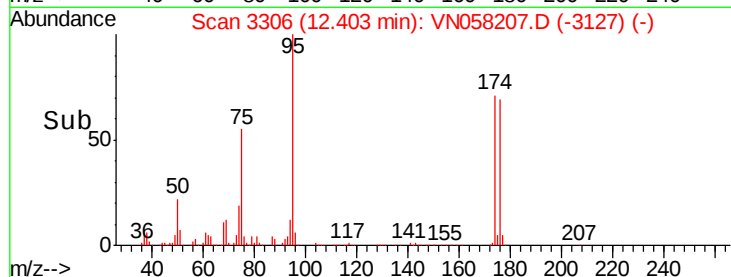
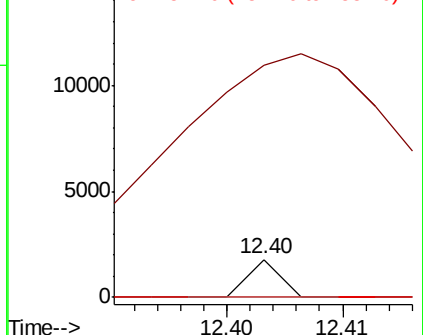
173 100

175 4697.1 24.2 72.6#

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: VN058207.D

Acq: 19 Sep 2019 16:41

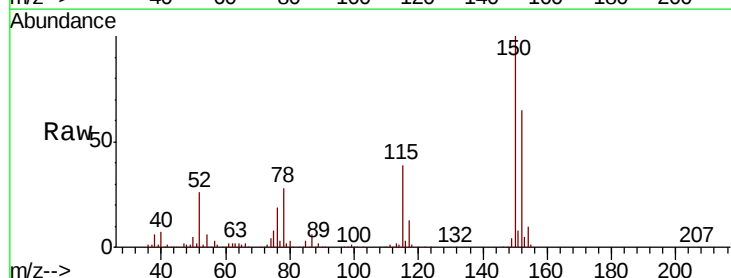
Tgt Ion:152 Resp: 290602

Ion Ratio Lower Upper

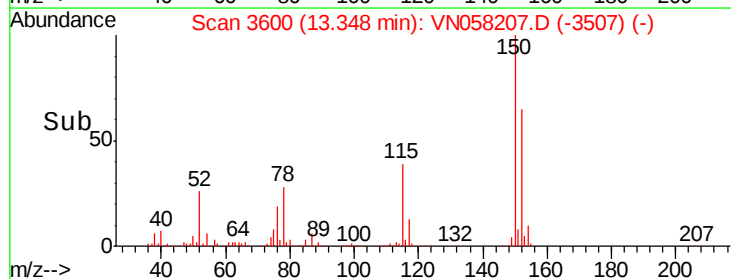
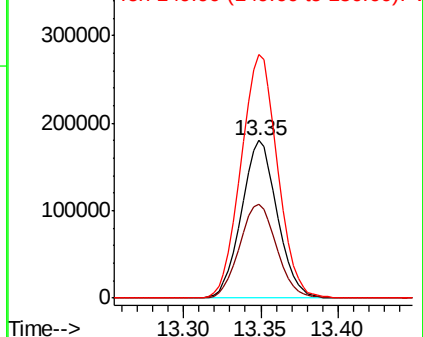
152 100

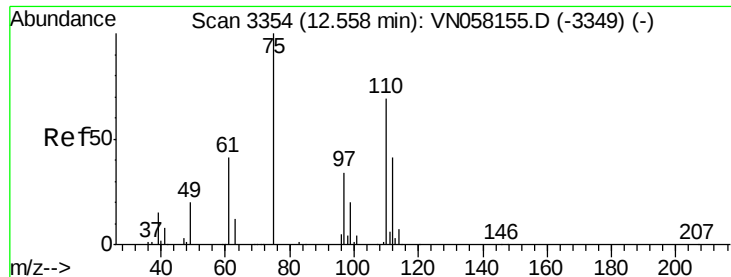
115 61.7 30.1 90.3

150 157.9 0.0 346.4



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: 35.733 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

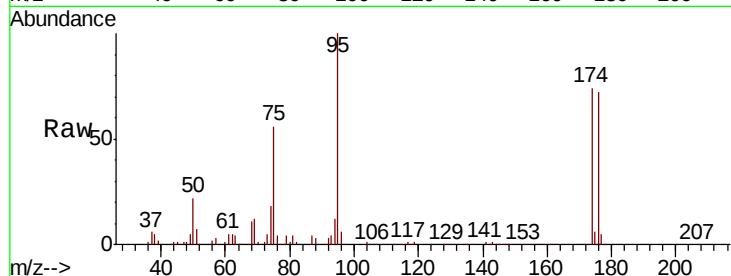
ClientSampleId :

Tot Ion: 75 Resp: 185845

Ion Ratio Lower Upper

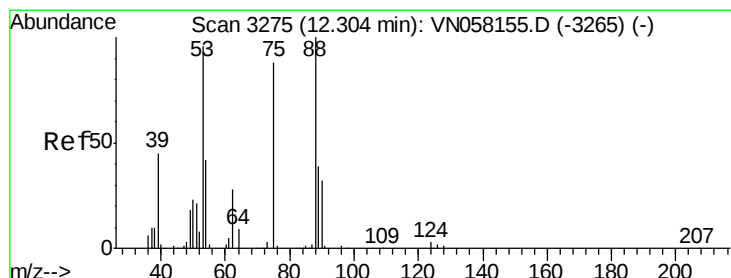
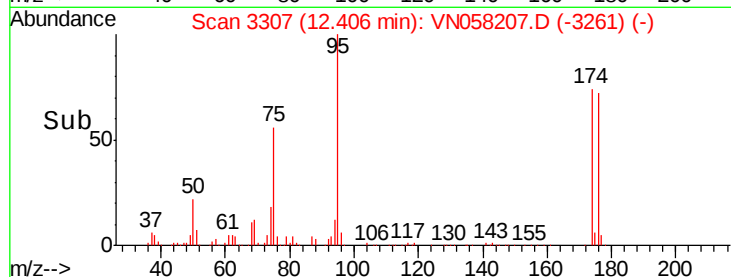
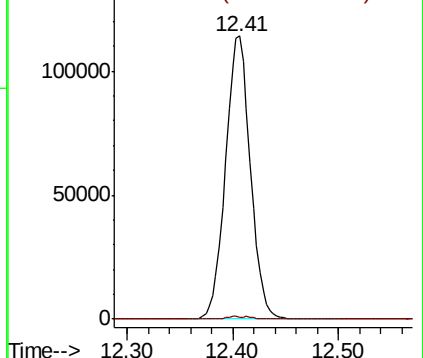
75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 99.838 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

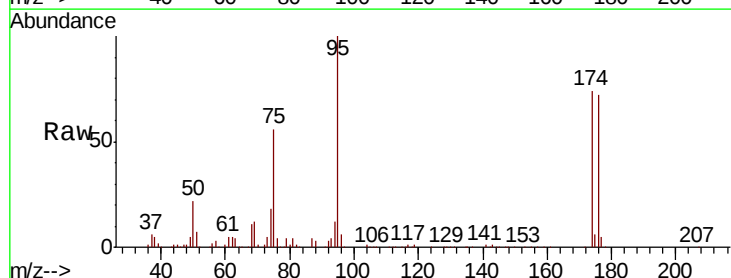
Tgt Ion: 75 Resp: 185845

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

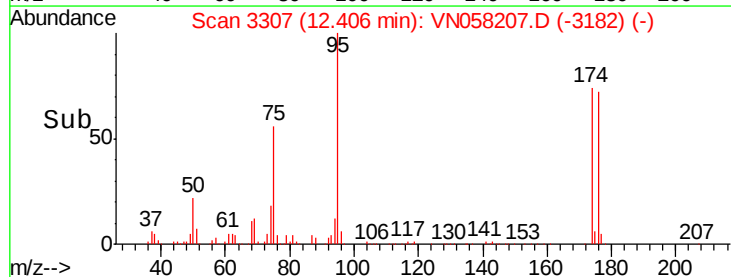
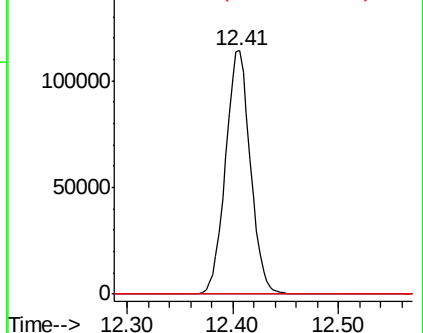
89 0.0 36.2 54.2#

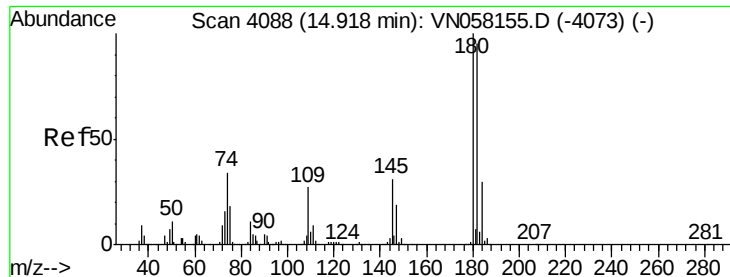


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#93

1,2,4-Trichlorobenzene

Concen: 0.315 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

Instrument :

MSVOA_N

ClientSampled :

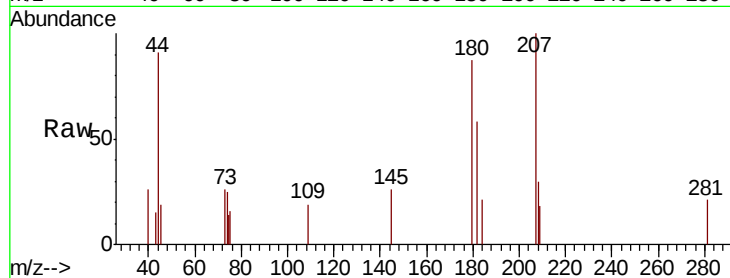
Tot Ion:180 Resp: 1685

Ion Ratio Lower Upper

180 100

182 73.1 47.8 143.3

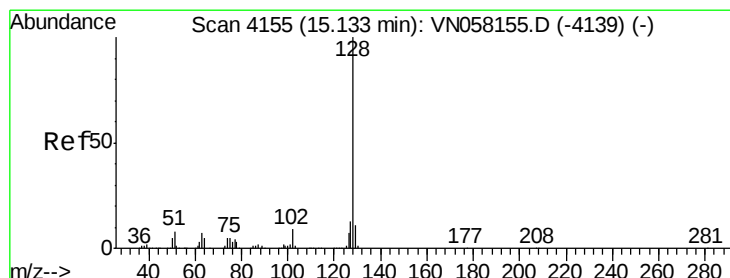
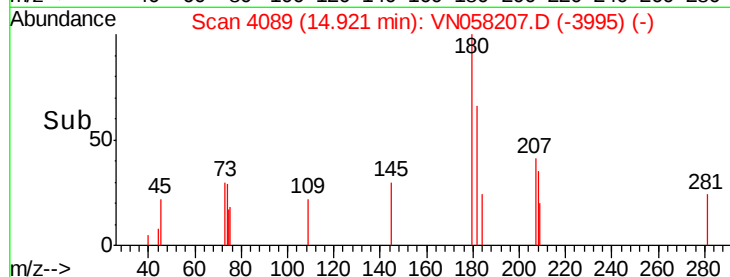
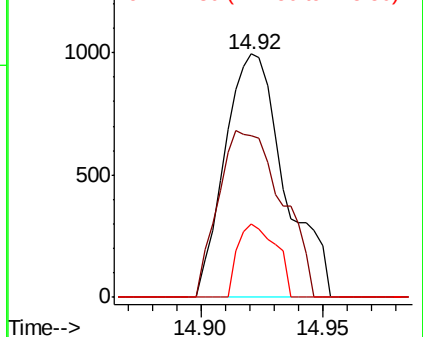
145 19.2 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 0.559 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058207.D

Acq: 19 Sep 2019 16:41

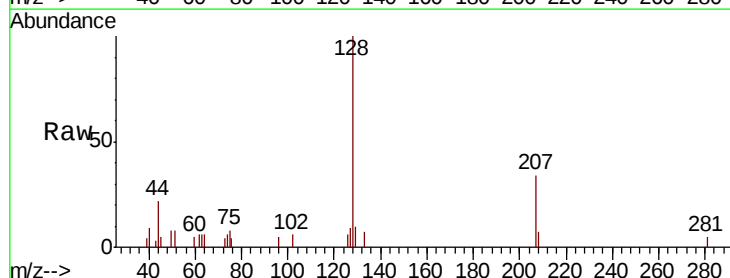
Tgt Ion:128 Resp: 7753

Ion Ratio Lower Upper

128 100

127 9.4 10.2 15.2#

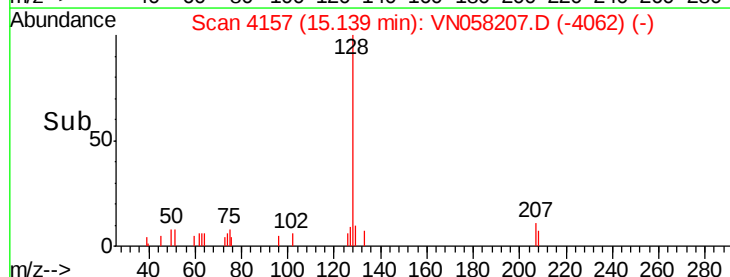
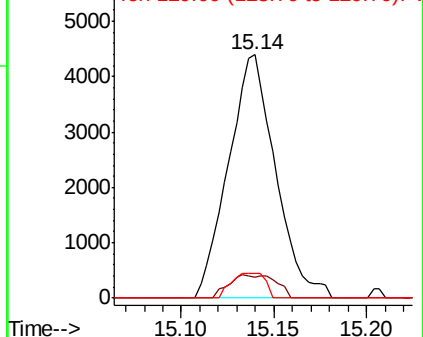
129 7.3 8.6 12.8#

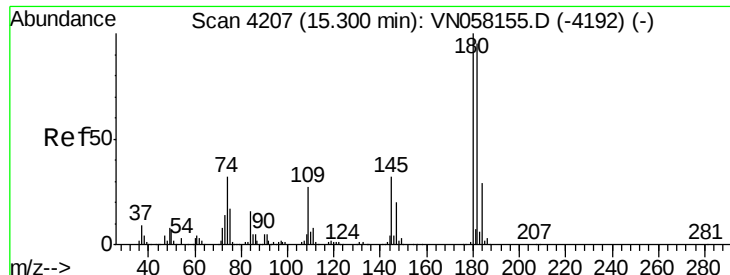


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

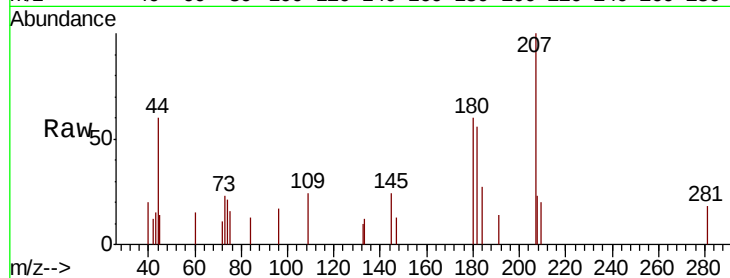




#96
 1,2,3-Trichlorobenzene
 Concen: 0.300 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058207.D
 Acq: 19 Sep 2019 16:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	111.3	47.4	142.2
145	36.6	16.1	48.2



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

