

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058433.D
 Acq On : 30 Sep 2019 14:27
 Operator : JC/SP
 Sample : K5080-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145I-20190924

Quant Time: Oct 01 01:31:59 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	432290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	705054	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	596595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228403	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	316959	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
35) Dibromofluoromethane	7.57	113	223220	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
50) Toluene-d8	10.09	98	890790	52.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.24%	
62) 4-Bromofluorobenzene	12.41	95	279508	45.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.34%	

Target Compounds

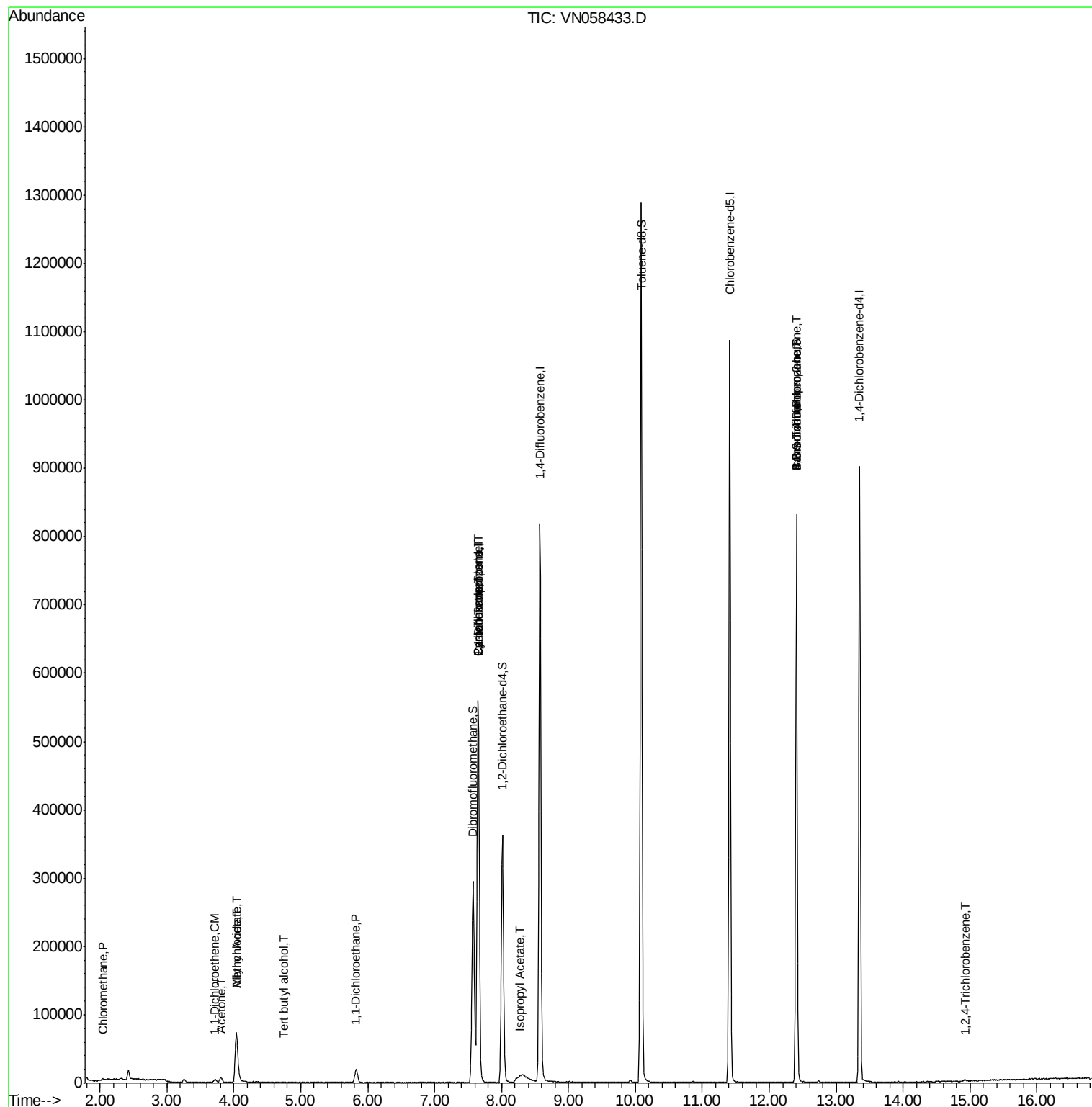
						Qvalue
3) Chloromethane	2.04	50	1297	0.249	ug/l #	72
11) Tert butyl alcohol	4.75	59	245	0.349	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	2543	0.624	ug/l #	78
14) Allyl chloride	4.04	41	10489	1.413	ug/l #	74
16) Acetone	3.80	43	13303	6.177	ug/l	94
18) Methyl Acetate	4.04	43	29666	5.477	ug/l #	53
24) 1,1-Dichloroethane	5.82	63	29218	3.251	ug/l	96
31) Cyclohexane	7.65	56	10407	1.190	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	37251	5.525	ug/l #	51
38) Carbon Tetrachloride	7.65	117	44114	7.249	ug/l #	16
43) Isopropyl Acetate	8.26	43	9934	0.924	ug/l #	63
71) Bromoform	12.40	173	821	0.988	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	152458	36.545	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	152458	110.991	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.93	180	1109	0.291	ug/l #	88

(#) = 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: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

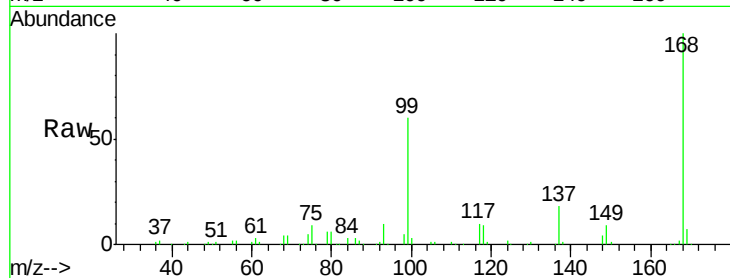
SA-PZ145I-20190924

Tot Ion:168 Resp: 432290

Ion Ratio Lower Upper

168 100

99 60.2 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

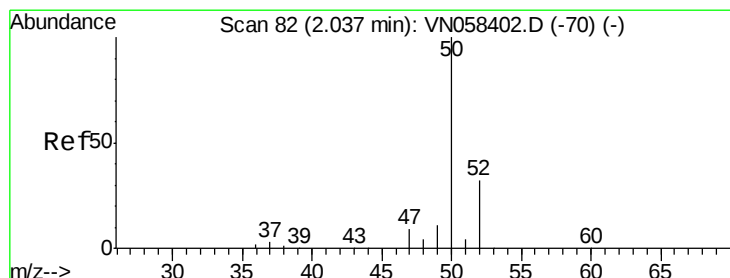
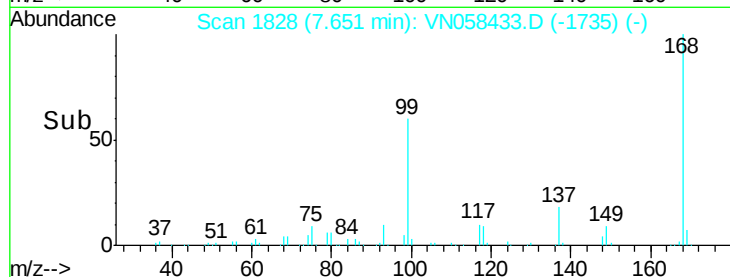
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.249 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058433.D

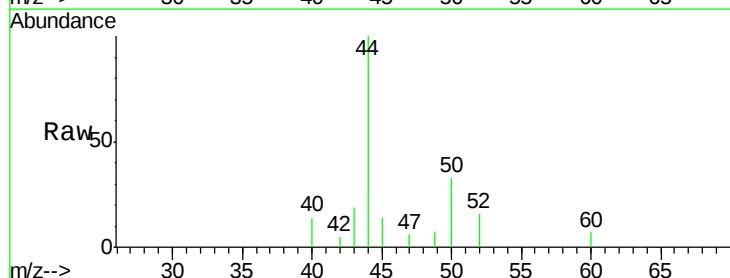
Acq: 30 Sep 2019 14:27

Tgt Ion: 50 Resp: 1297

Ion Ratio Lower Upper

50 100

52 48.4 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

1200

1000

800

600

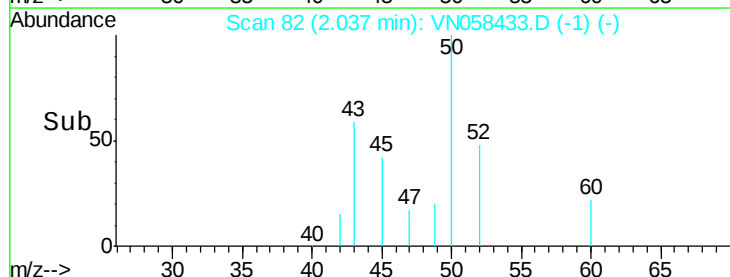
400

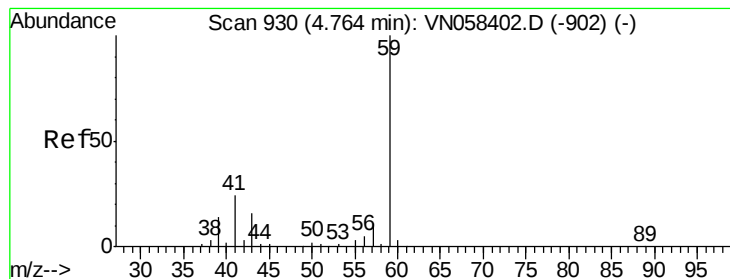
200

0

2.00 2.02 2.04 2.06

Time-->



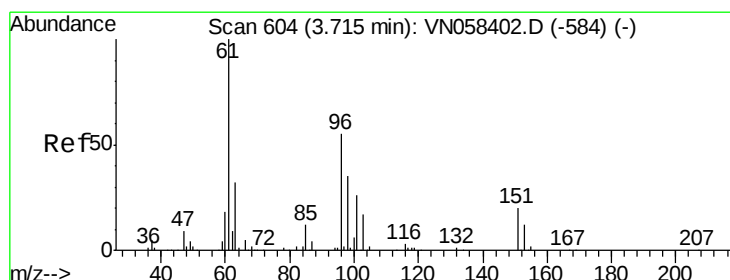
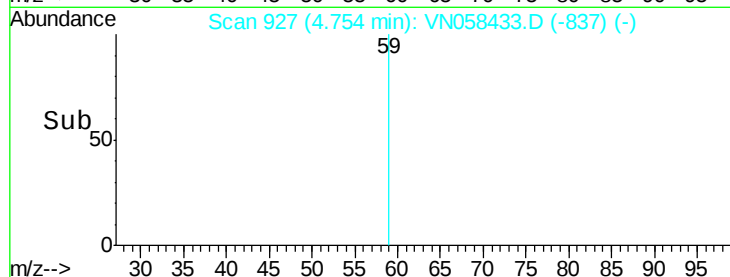
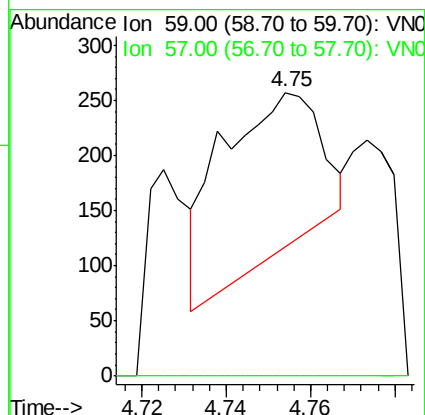
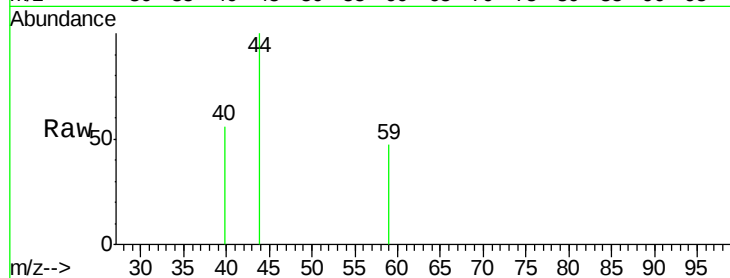


#11

Tert butyl alcohol
 Concen: 0.349 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.01 min
 Lab File: VN058433.D
 Acq: 30 Sep 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145I-20190924

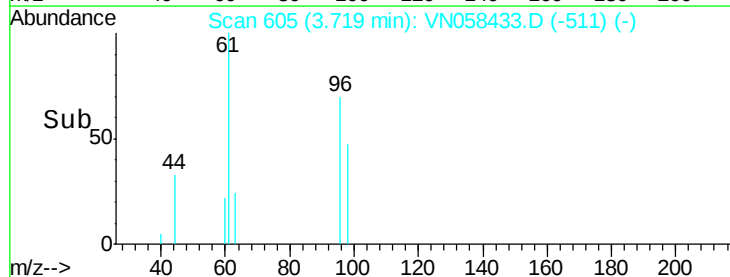
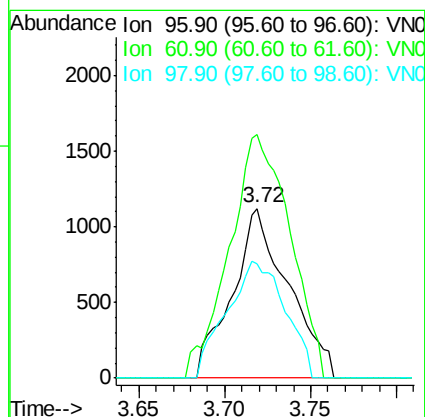
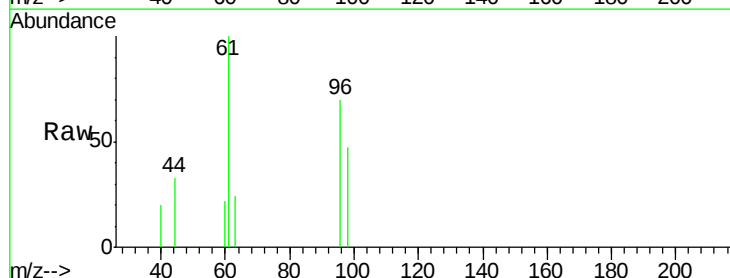
Tot Ion: 59 Resp: 245
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

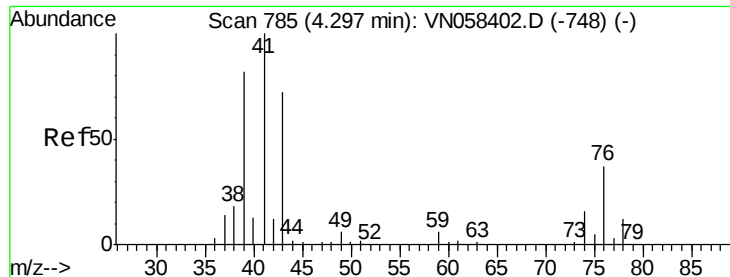


#12

1,1-Dichloroethene
 Concen: 0.624 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058433.D
 Acq: 30 Sep 2019 14:27

Tgt Ion: 96 Resp: 2543
 Ion Ratio Lower Upper
 96 100
 61 143.4 146.7 220.1#
 98 67.3 51.3 76.9





#14

Allvl chloride

Concen: 1.413 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.25 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20190924

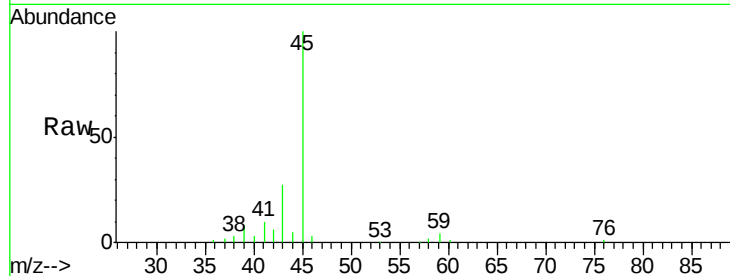
Tot Ion: 41 Resp: 10489

Ion Ratio Lower Upper

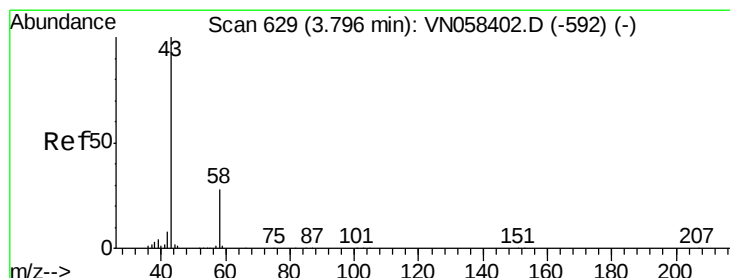
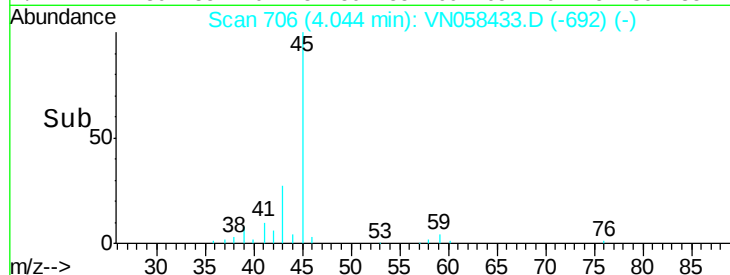
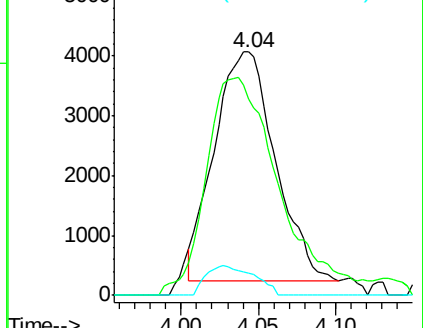
41 100

39 95.0 62.3 93.5#

76 10.2 26.9 40.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: 6.177 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058433.D

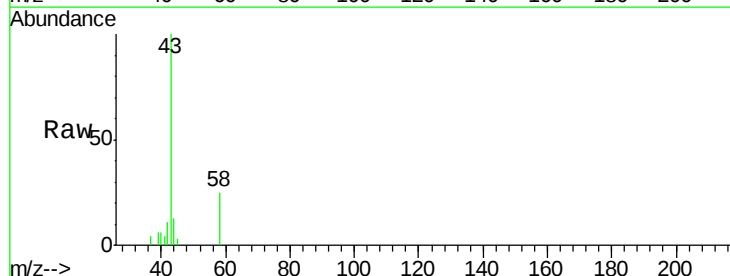
Acq: 30 Sep 2019 14:27

Tgt Ion: 43 Resp: 13303

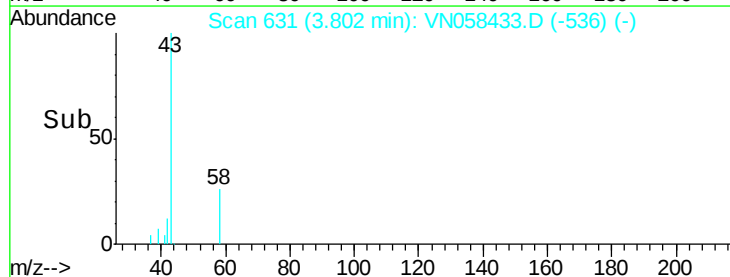
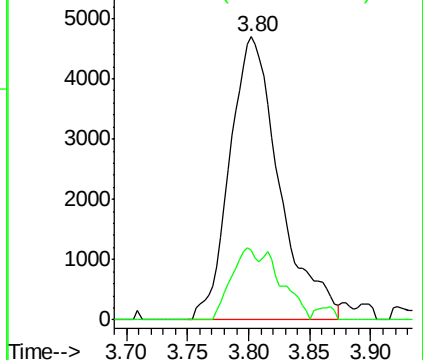
Ion Ratio Lower Upper

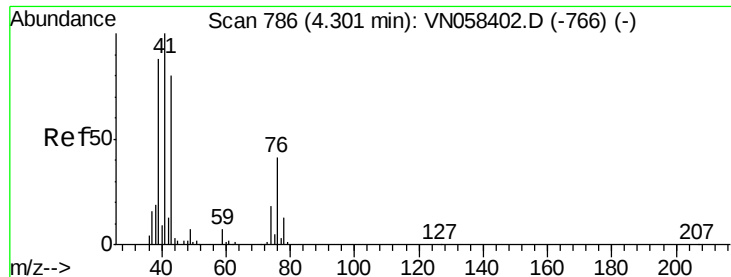
43 100

58 24.8 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

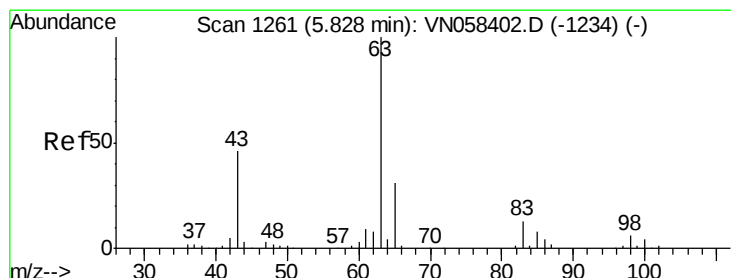
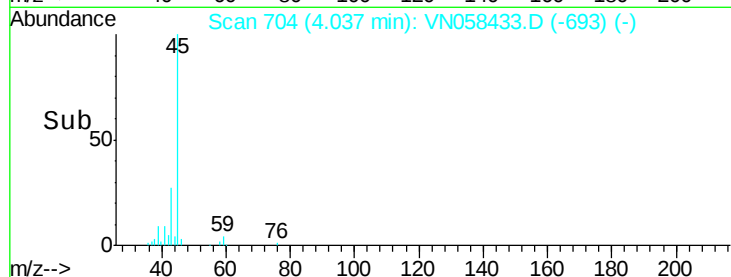
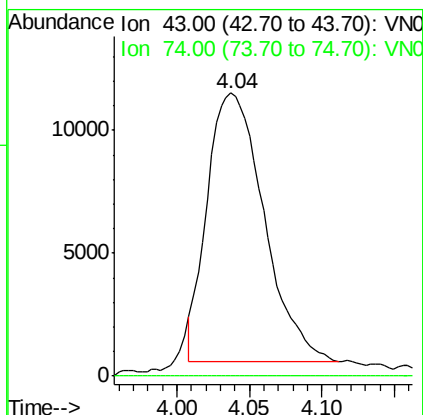
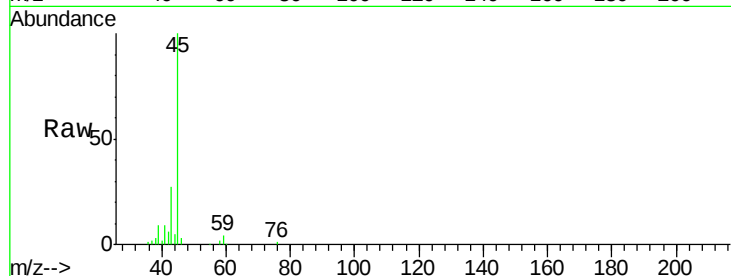




#18
Methvl Acetate
Concen: 5.477 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.26 min
Lab File: VN058433.D
Acq: 30 Sep 2019 14:27

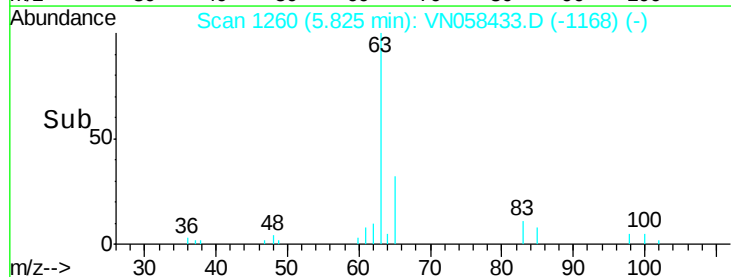
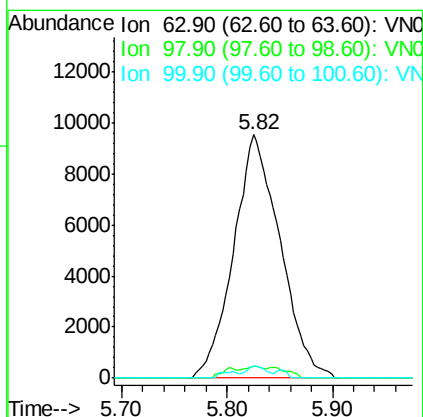
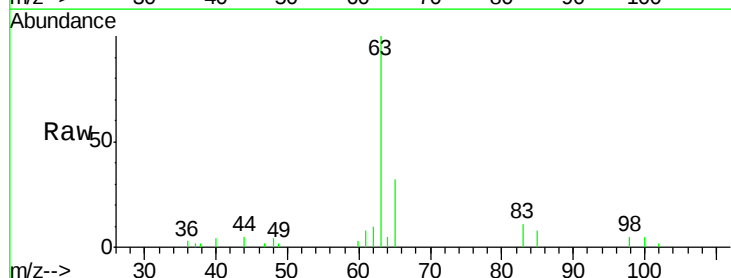
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145I-20190924

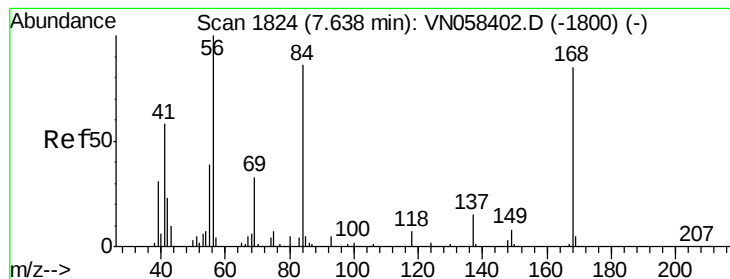
Tot Ion: 43 Resp: 29666
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#24
1,1-Dichloroethane
Concen: 3.251 ug/l
RT: 5.82 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VN058433.D
Acq: 30 Sep 2019 14:27

Tgt Ion: 63 Resp: 29218
Ion Ratio Lower Upper
63 100
98 4.8 3.0 9.0
100 5.0 2.0 5.8





#31

Cyclohexane

Concen: 1.190 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20190924

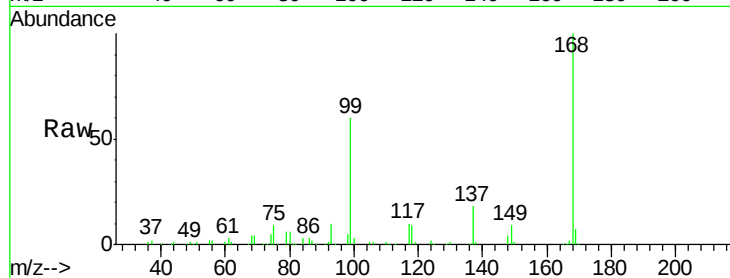
Tot Ion: 56 Resp: 10407

Ion Ratio Lower Upper

56 100

69 166.0 26.2 39.4#

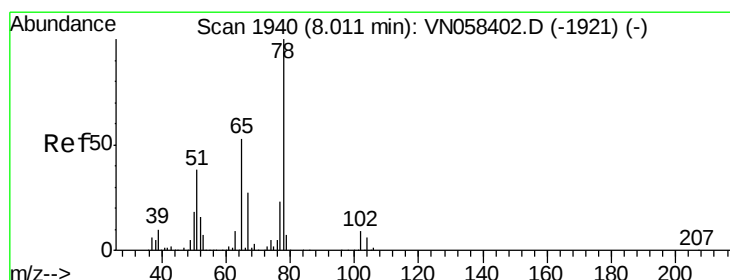
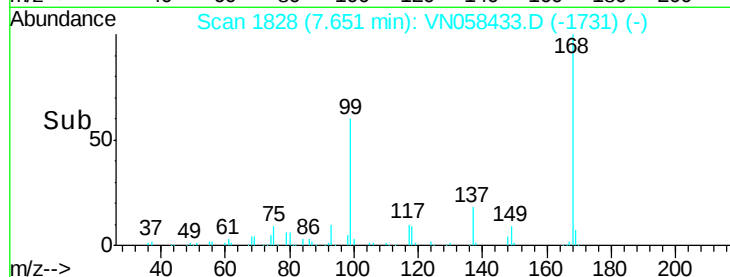
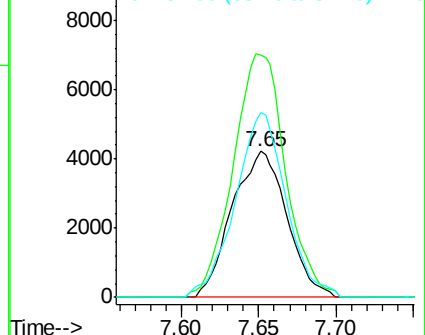
84 126.3 67.6 101.4#



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: 50.174 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058433.D

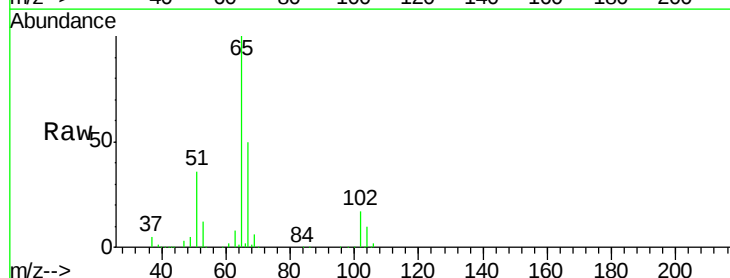
Acq: 30 Sep 2019 14:27

Tgt Ion: 65 Resp: 316959

Ion Ratio Lower Upper

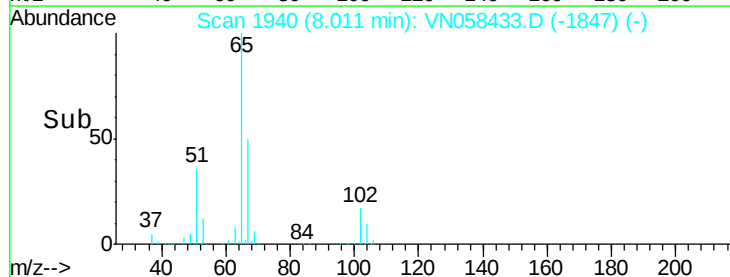
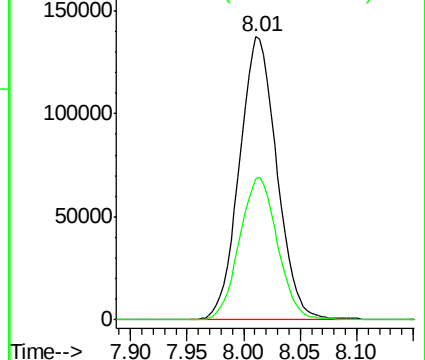
65 100

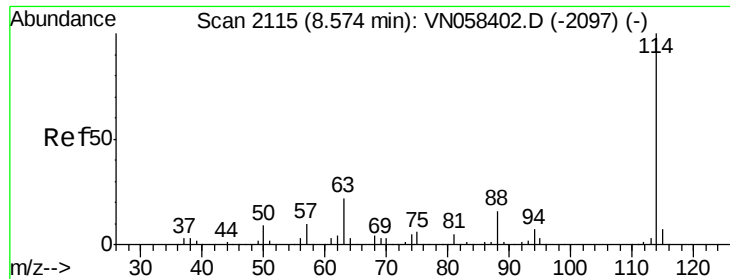
67 50.9 0.0 102.4



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: VN058433.D

Acq: 30 Sep 2019 14:27

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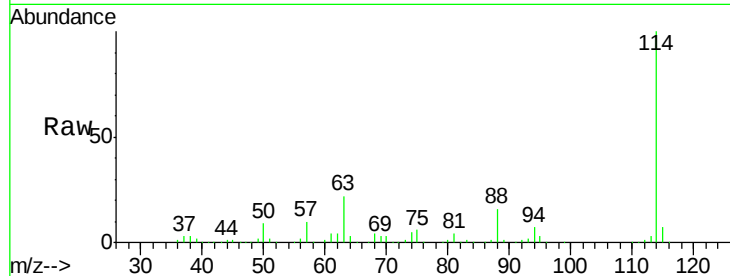
Tot Ion:114 Resp: 705054

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.0

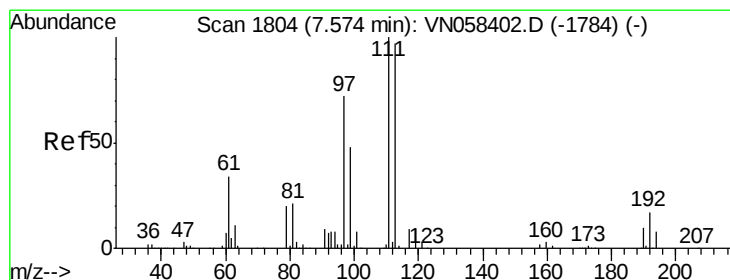
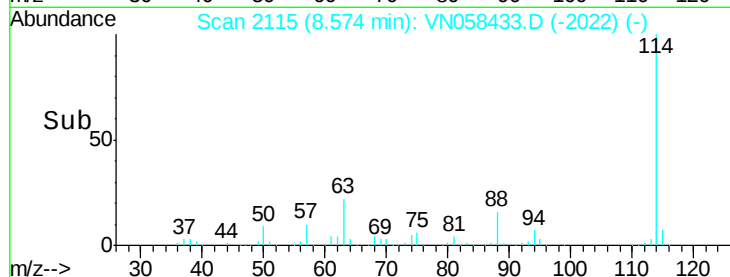
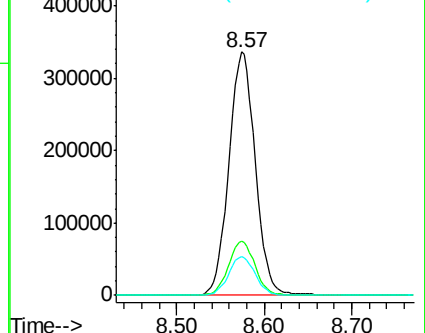
88 16.1 0.0 32.2



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: 51.657 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

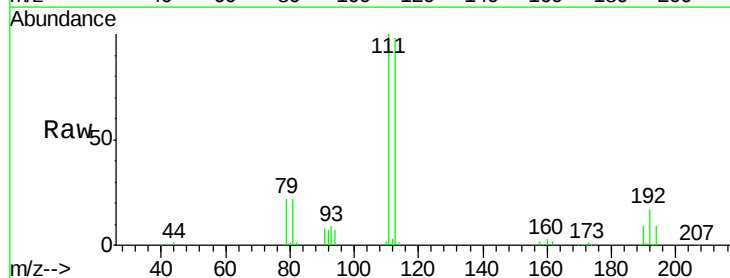
Tgt Ion:113 Resp: 223220

Ion Ratio Lower Upper

113 100

111 103.6 83.4 125.2

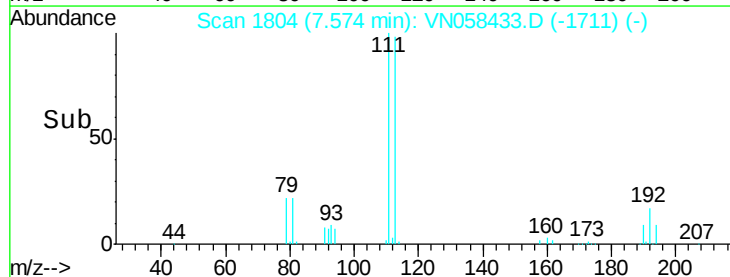
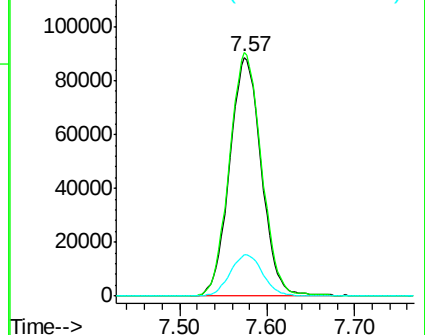
192 17.8 14.9 22.3

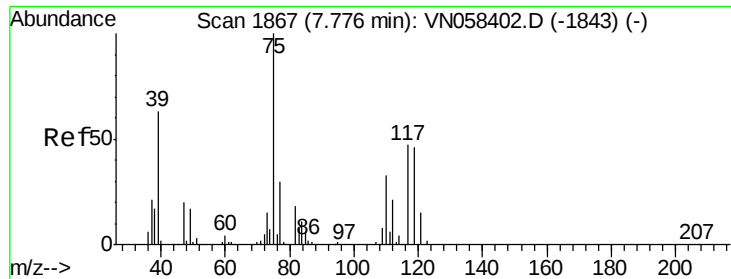


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.525 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

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SA-PZ145I-20190924

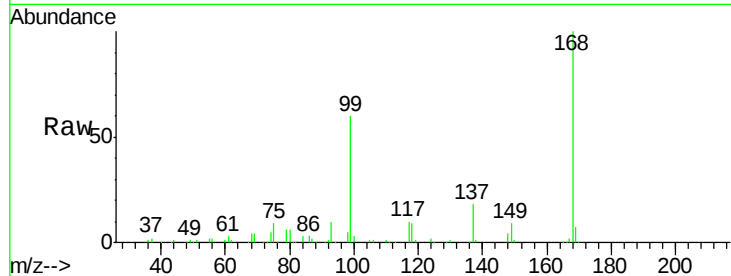
Tot Ion: 75 Resp: 37251

Ion Ratio Lower Upper

75 100

110 9.1 16.4 49.2#

77 0.0 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) (-)

7.65

15000

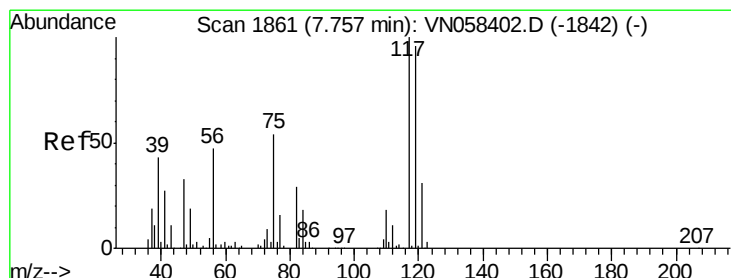
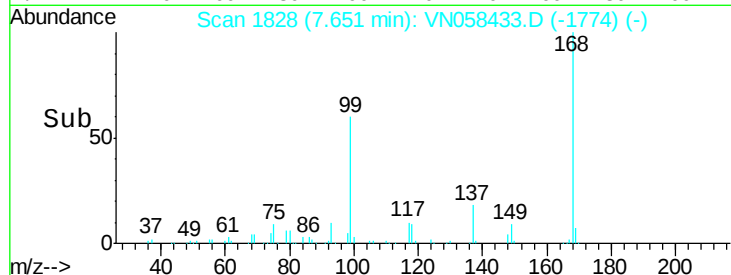
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 7.249 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

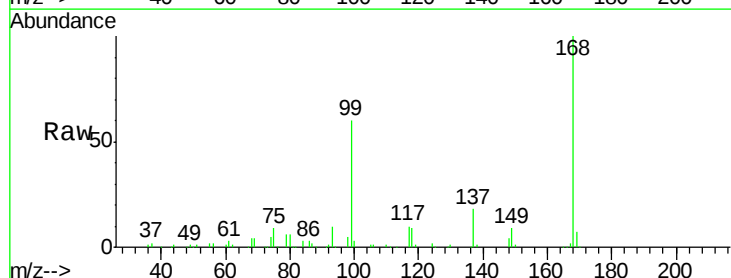
Tgt Ion: 117 Resp: 44114

Ion Ratio Lower Upper

117 100

119 5.2 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) (-)

7.65

25000

20000

15000

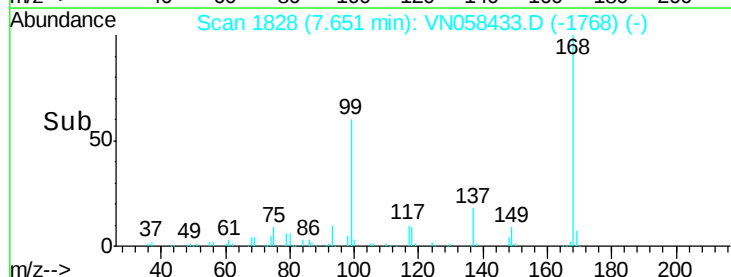
10000

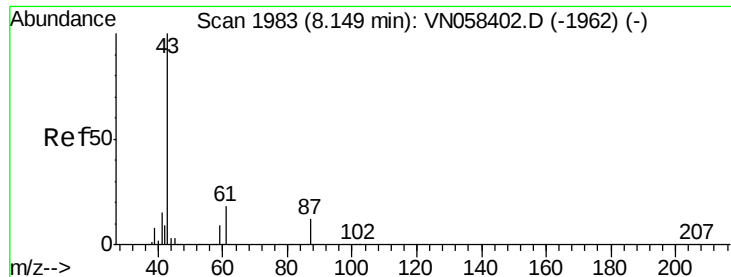
5000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 0.924 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.11 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20190924

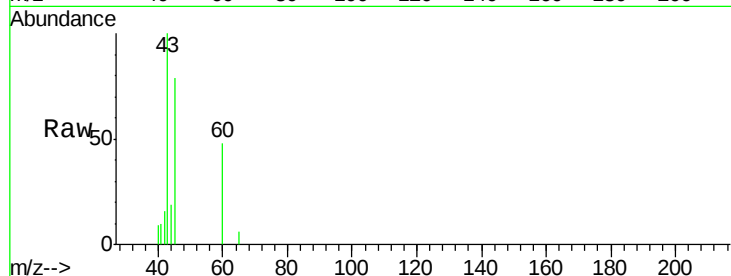
Tot Ion: 43 Resp: 9934

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

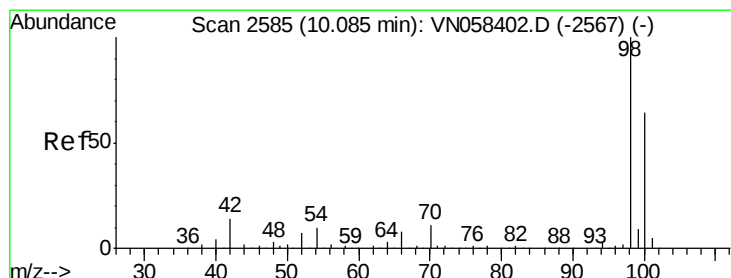
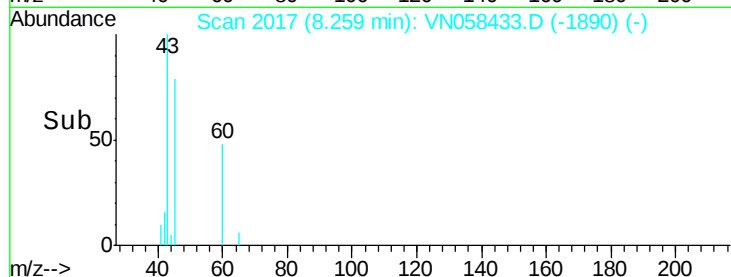
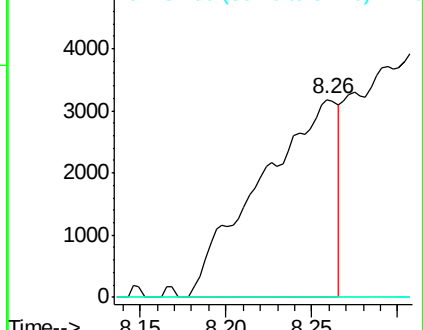
87 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 52.622 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058433.D

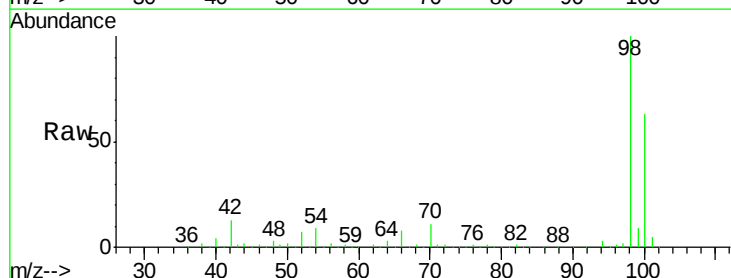
Acq: 30 Sep 2019 14:27

Tgt Ion: 98 Resp: 890790

Ion Ratio Lower Upper

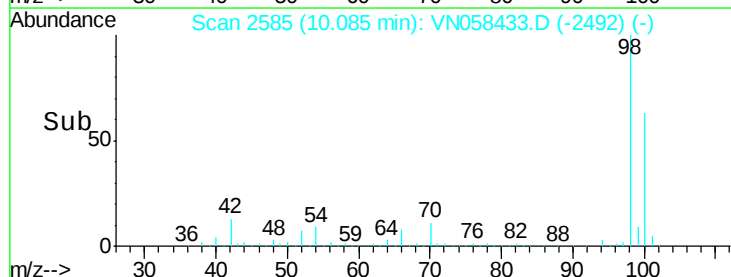
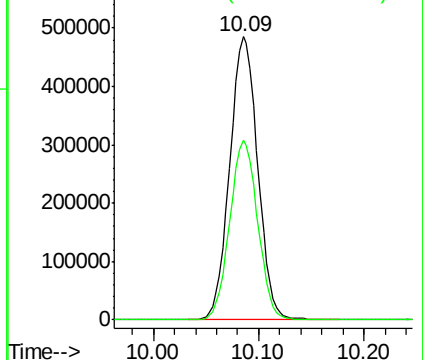
98 100

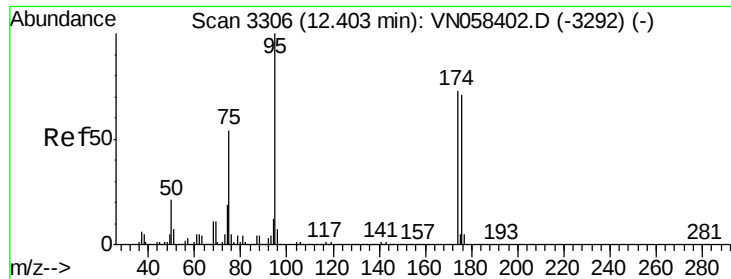
100 63.5 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.665 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20190924

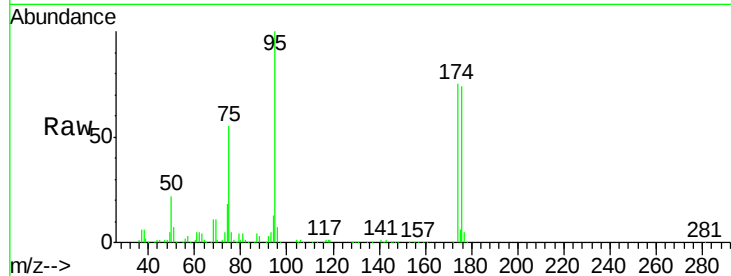
Tot Ion: 95 Resp: 279508

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.6

176 73.1 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) (-)

12.41

150000

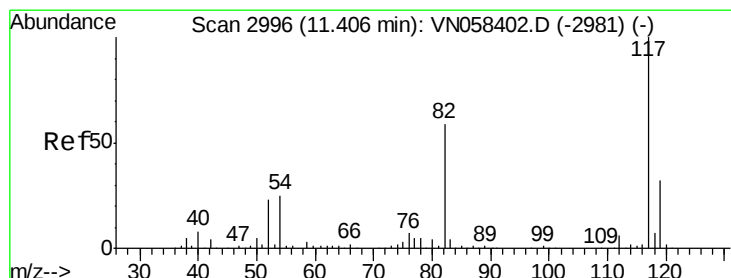
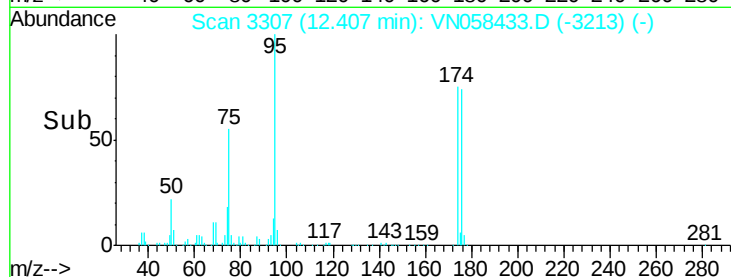
100000

50000

0

12.40 12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

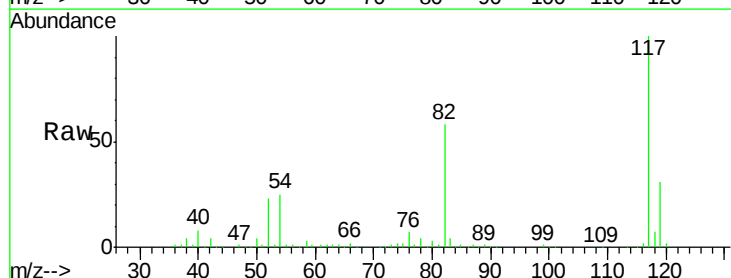
Tgt Ion: 117 Resp: 596595

Ion Ratio Lower Upper

117 100

82 58.3 47.4 71.0

119 31.2 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) (-)

11.41

400000

300000

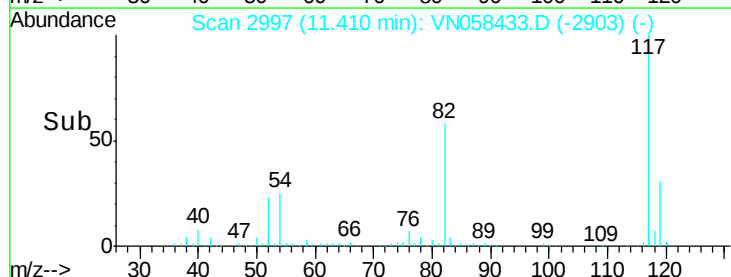
200000

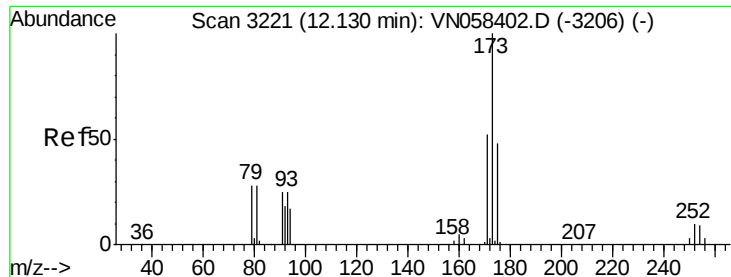
100000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 0.988 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20190924

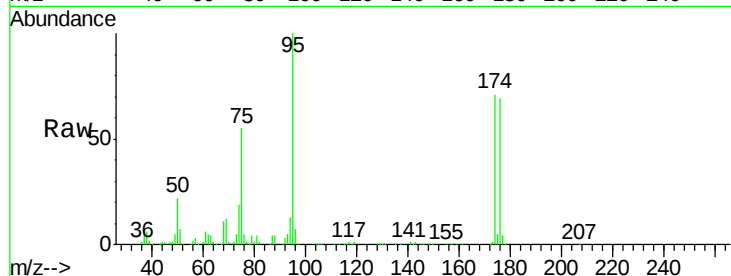
Tot Ion:173 Resp: 821

Ion Ratio Lower Upper

173 100

175 1574.8 24.3 73.0#

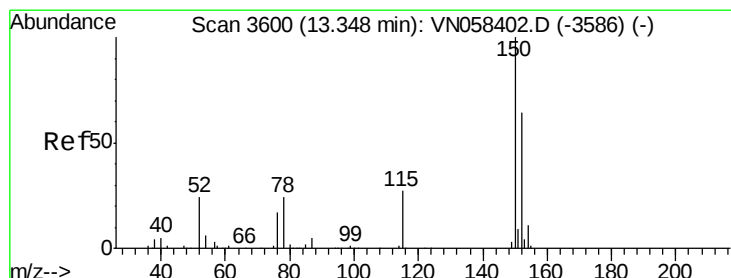
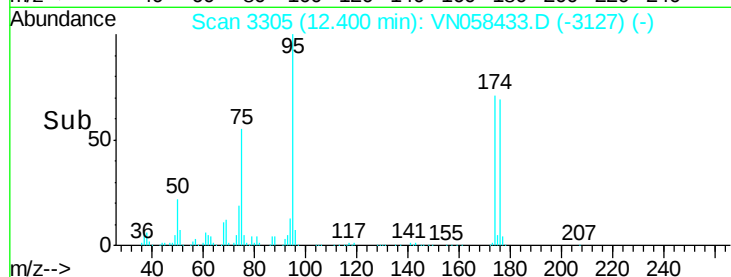
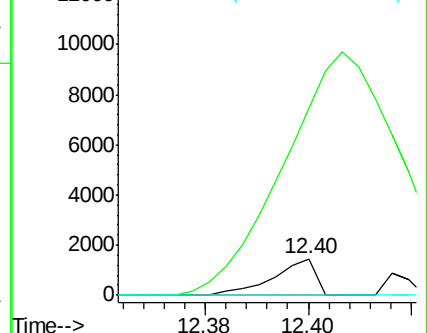
254 0.0 0.1 0.1#



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# 3601

Delta R.T. 0.00 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

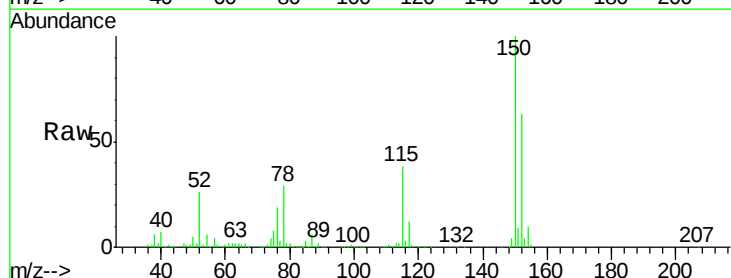
Tgt Ion:152 Resp: 228403

Ion Ratio Lower Upper

152 100

115 61.1 30.0 90.0

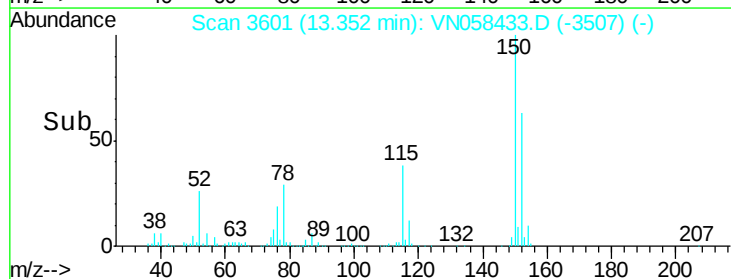
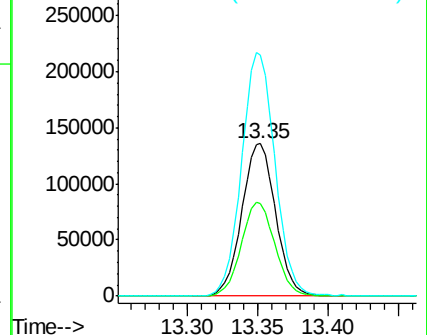
150 158.2 0.0 348.2

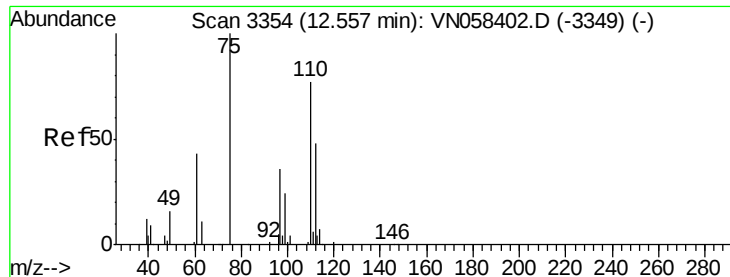


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.545 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

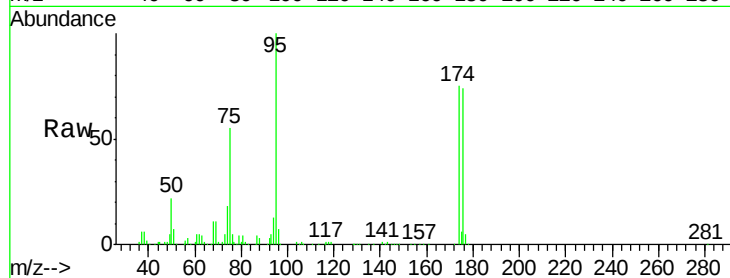
SA-PZ145I-20190924

Tot Ion: 75 Resp: 152458

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

100000

80000

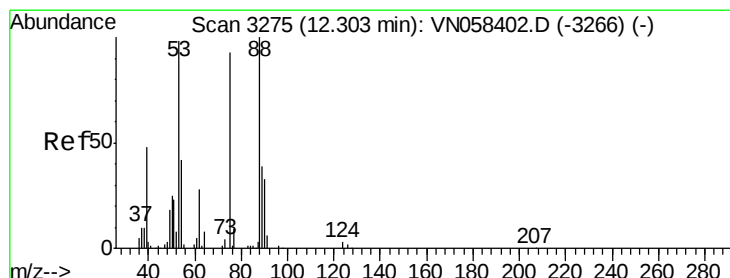
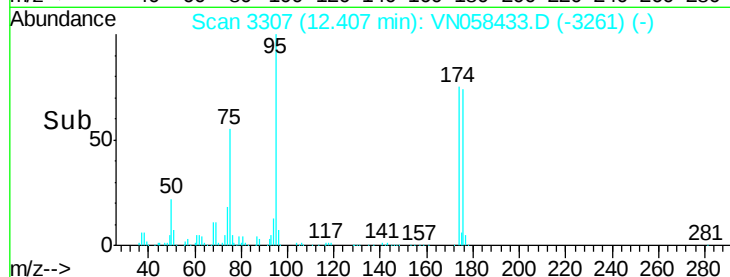
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.991 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058433.D

Acq: 30 Sep 2019 14:27

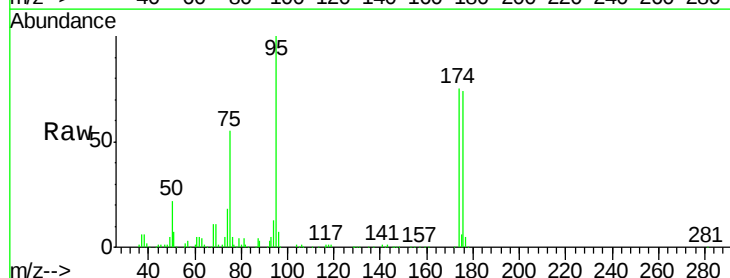
Tgt Ion: 75 Resp: 152458

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#



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

12.41

120000

100000

80000

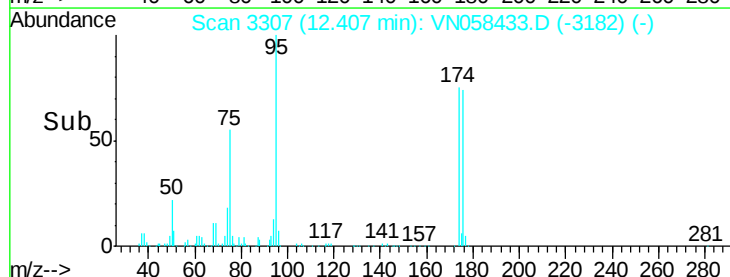
60000

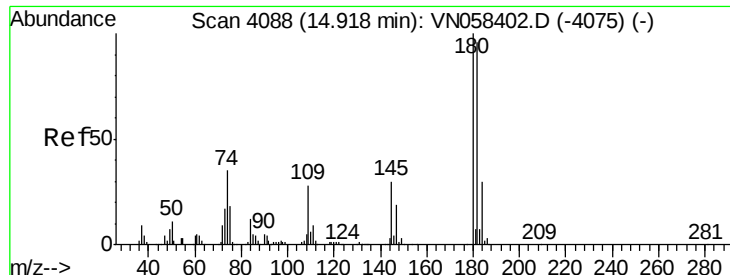
40000

20000

0

Time-->





#93
 1,2,4-Trichlorobenzene
 Concen: 0.291 ug/l
 RT: 14.93 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN058433.D
 Acq: 30 Sep 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145I-20190924

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.6	47.4	142.3
145	9.6	15.3	45.9#

