

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058934.D
 Acq On : 23 Oct 2019 16:52
 Operator : JC/SP
 Sample : K5507-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S81-0106

Quant Time: Oct 24 02:22:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	320736	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	524606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474411	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209599	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	238944	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
35) Dibromofluoromethane	7.57	113	171446	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
50) Toluene-d8	10.09	98	631166	47.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.28%	
62) 4-Bromofluorobenzene	12.40	95	219001	44.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.08%	

Target Compounds

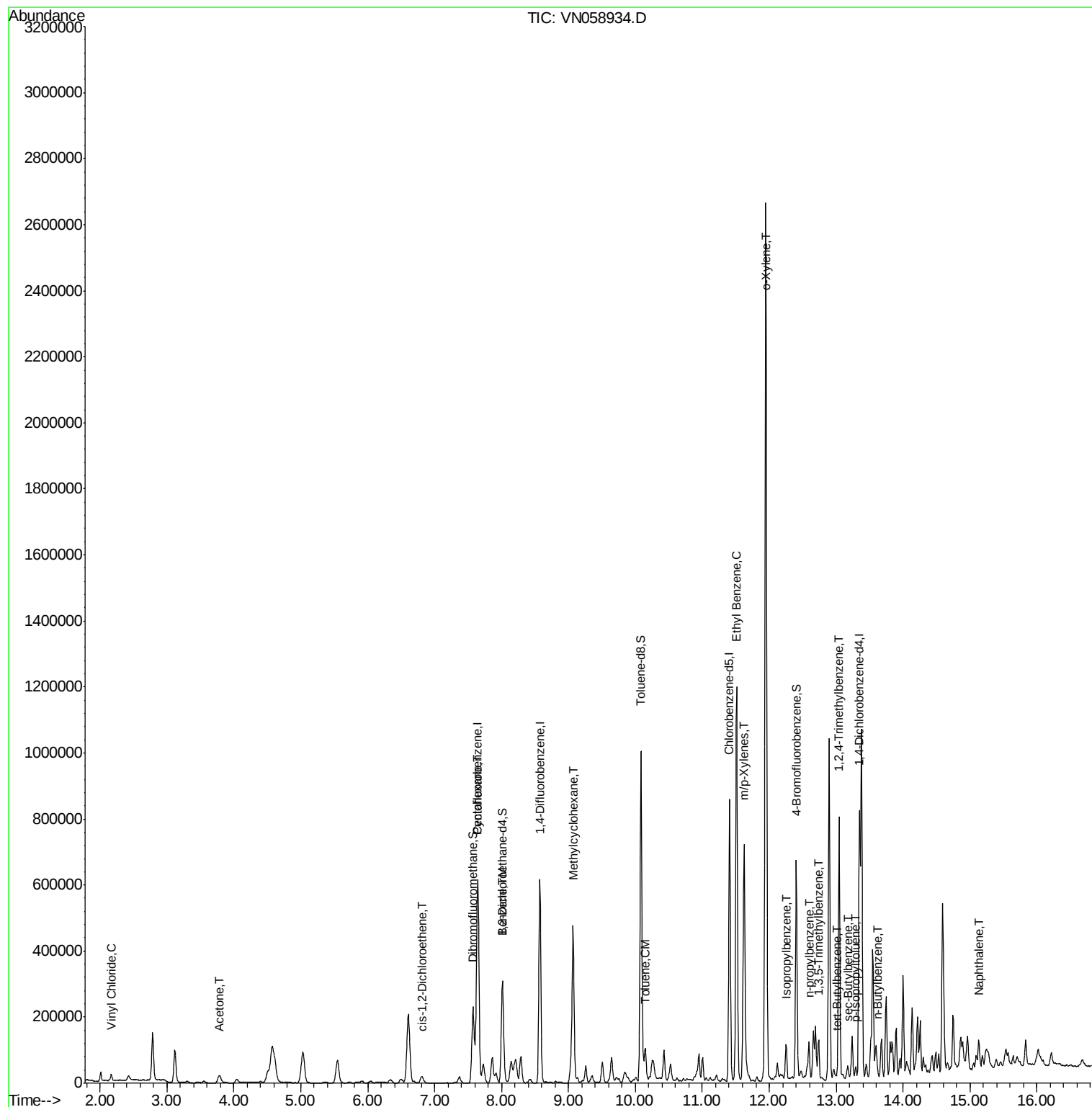
						Qvalue
4) Vinyl Chloride	2.17	62	11218	2.281	ug/l	91
16) Acetone	3.80	43	21151	9.099	ug/l #	80
27) cis-1,2-Dichloroethene	6.81	96	10957	2.747	ug/l	76
31) Cyclohexane	7.63	56	149625	22.133	ug/l	98
39) Methylcyclohexane	9.07	83	190954	31.664	ug/l	97
40) Benzene	8.02	78	61924	3.926	ug/l	94
52) Toluene	10.15	92	40750	4.357	ug/l	97
67) Ethyl Benzene	11.51	91	831962	49.104	ug/l	99
68) m/p-Xylenes	11.63	106	220803	35.141	ug/l	99
69) o-Xylene	11.95	106	697403	116.378	ug/l	99
73) Isopropylbenzene	12.25	105	68740	4.488	ug/l	99
78) n-propylbenzene	12.59	91	88331	4.878	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	56400	4.382	ug/l	99
83) tert-Butylbenzene	13.00	119	4003	0.364	ug/l	91
84) 1,2,4-Trimethylbenzene	13.04	105	431636	34.003	ug/l	99
85) sec-Butylbenzene	13.18	105	21710	1.480	ug/l	80
86) p-Isopropyltoluene	13.29	119	16608	1.283	ug/l	97
89) n-Butylbenzene	13.62	91	6295	0.529	ug/l #	52
95) Naphthalene	15.13	128	64790	7.382	ug/l	98

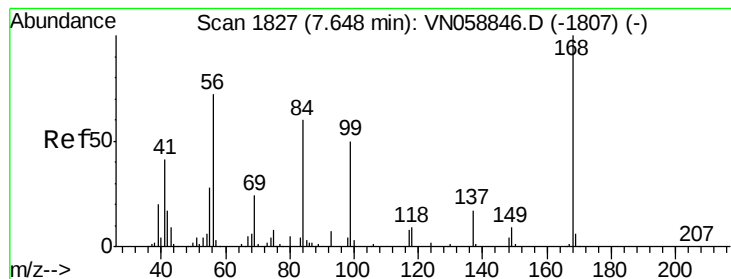
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

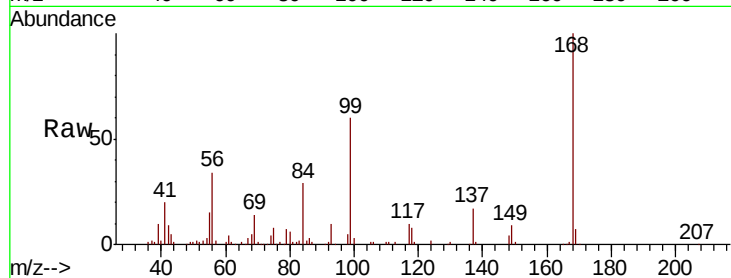
S81-0106

Tot Ion:168 Resp: 320736

Ion Ratio Lower Upper

168 100

99 60.0 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

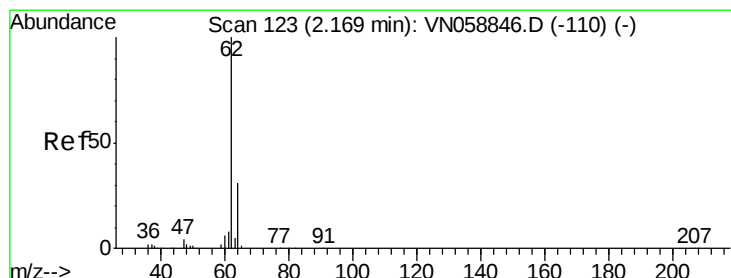
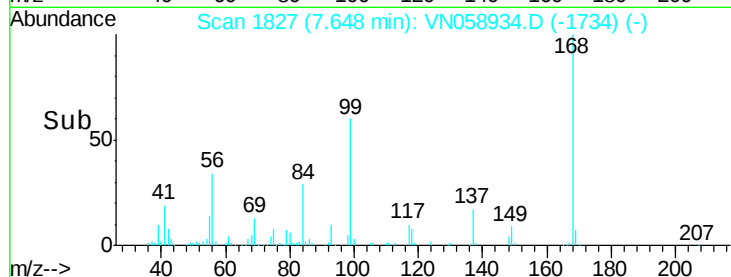
100000

50000

0

7.60 7.70

Time-->



#4

Vinyl Chloride

Concen: 2.281 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058934.D

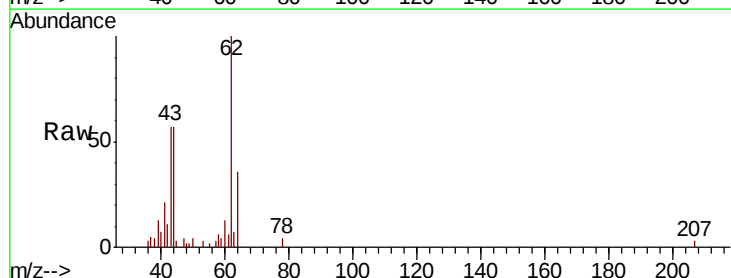
Acq: 23 Oct 2019 16:52

Tgt Ion: 62 Resp: 11218

Ion Ratio Lower Upper

62 100

64 35.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.17

8000

6000

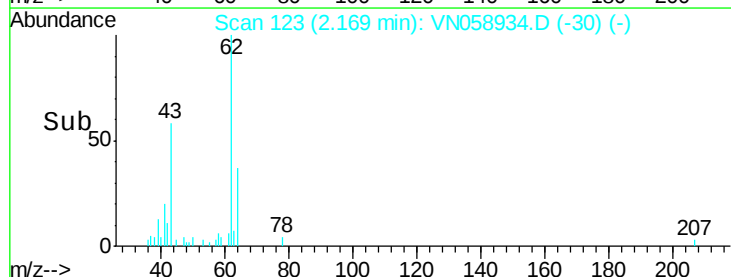
4000

2000

0

2.10 2.15 2.20

Time-->





#16

Acetone

Concen: 9.099 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

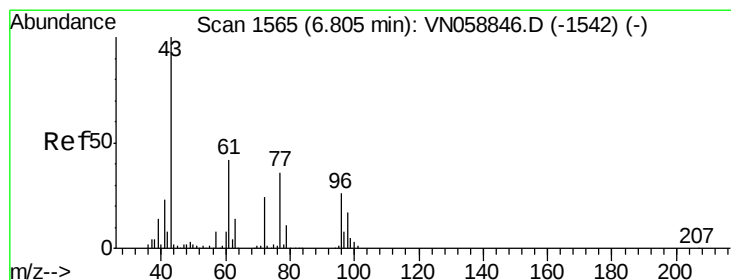
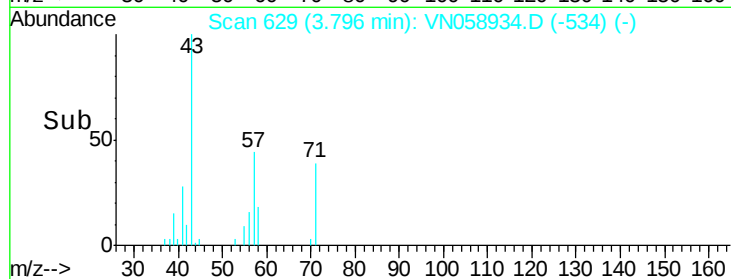
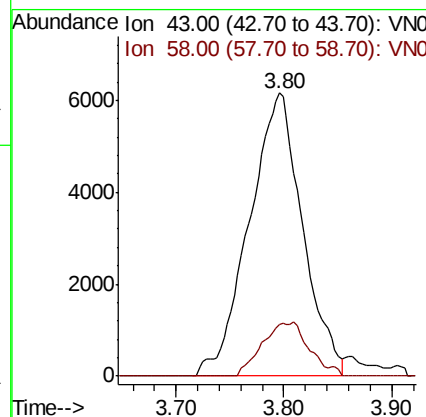
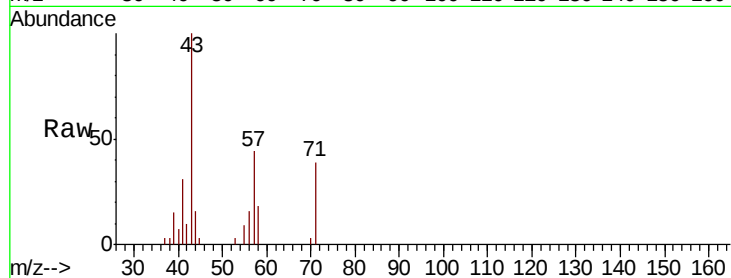
S81-0106

Tot Ion: 43 Resp: 21151

Ion Ratio Lower Upper

43 100

58 18.0 23.1 34.7#



#27

cis-1,2-Dichloroethene

Concen: 2.747 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

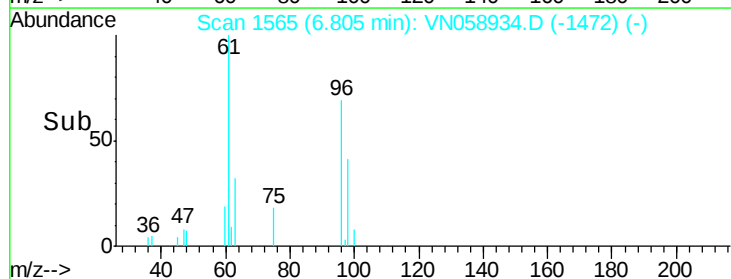
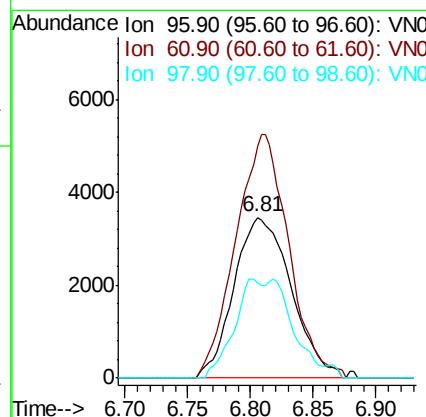
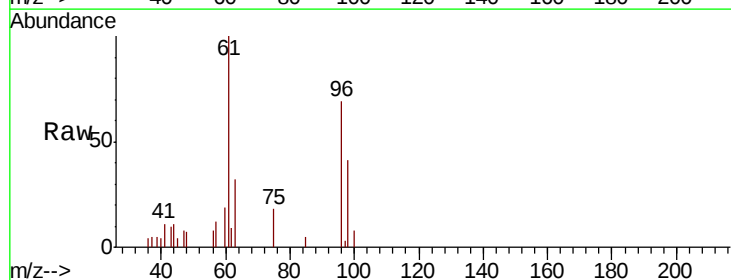
Tgt Ion: 96 Resp: 10957

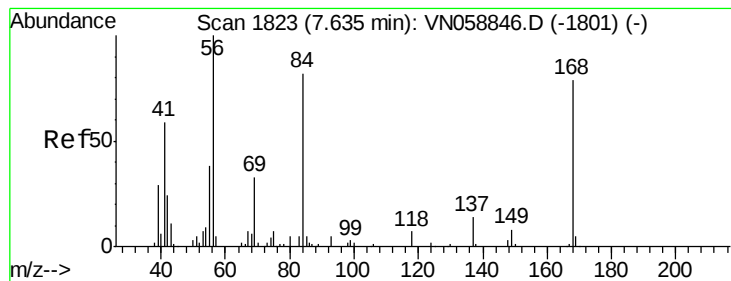
Ion Ratio Lower Upper

96 100

61 140.3 0.0 325.0

98 29.5 0.0 128.0





#31

Cyclohexane

Concen: 22.133 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

S81-0106

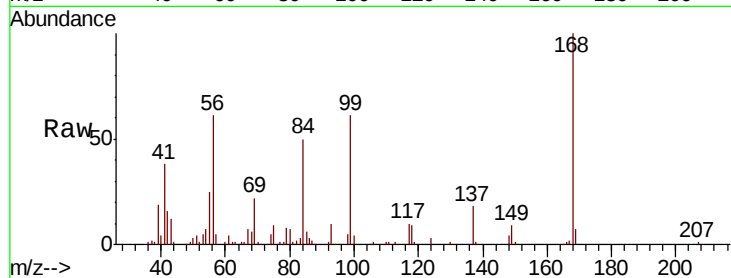
Tot Ion: 56 Resp: 149625

Ion Ratio Lower Upper

56 100

69 35.7 26.2 39.4

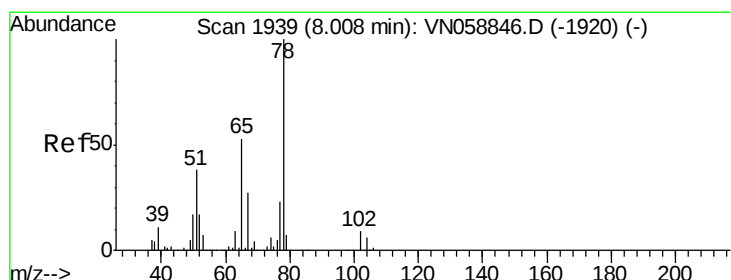
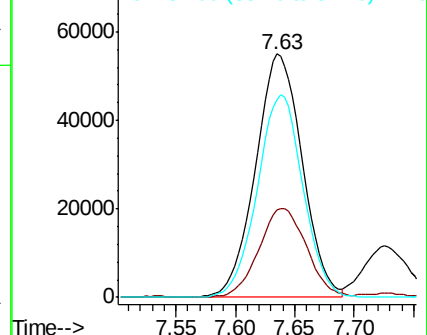
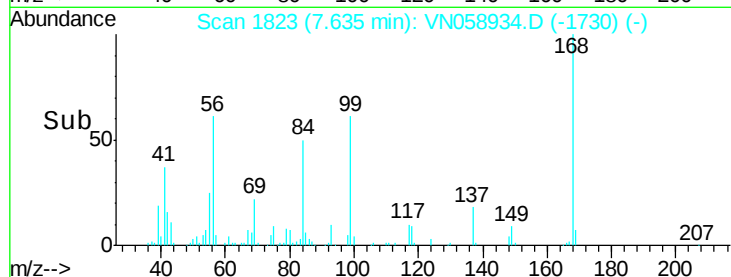
84 81.2 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VN058934.D (-1730) (-)

Ion 69.00 (68.70 to 69.70): VN058934.D (-1730) (-)

Ion 84.00 (83.70 to 84.70): VN058934.D (-1730) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.795 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058934.D

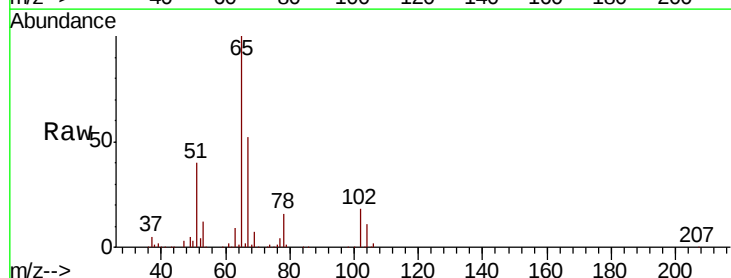
Acq: 23 Oct 2019 16:52

Tgt Ion: 65 Resp: 238944

Ion Ratio Lower Upper

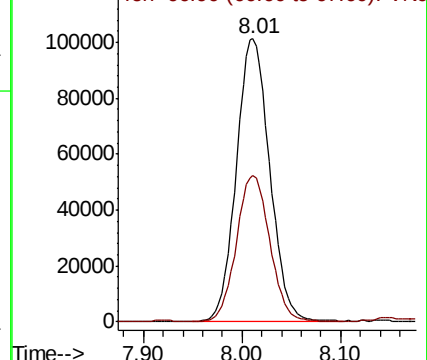
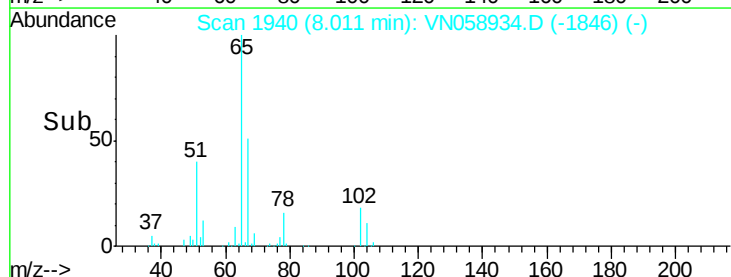
65 100

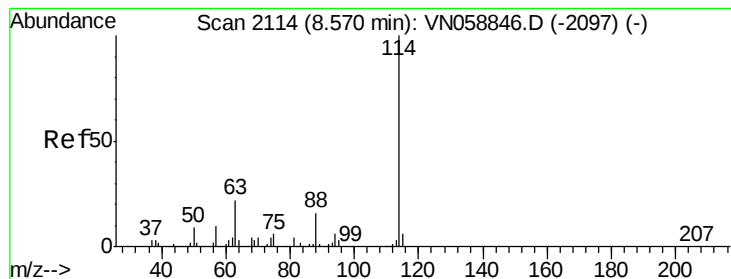
67 51.9 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VN058934.D (-1846) (-)

Ion 66.90 (66.60 to 67.60): VN058934.D (-1846) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

S81-0106

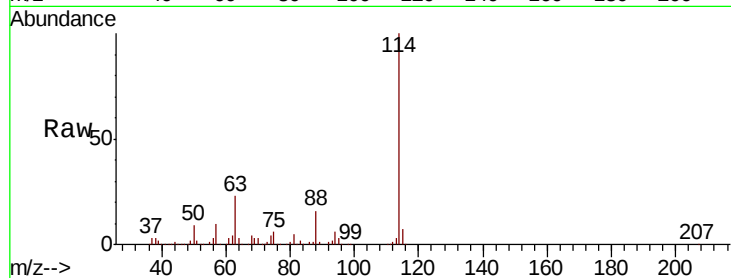
Tot Ion:114 Resp: 524606

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.4

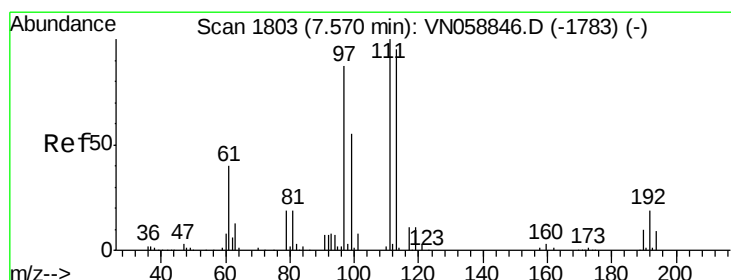
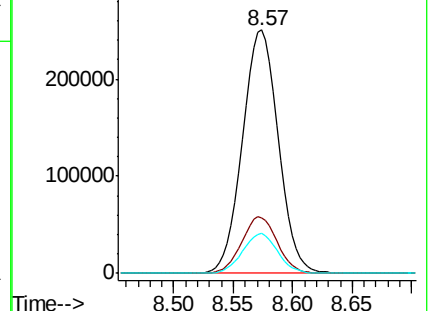
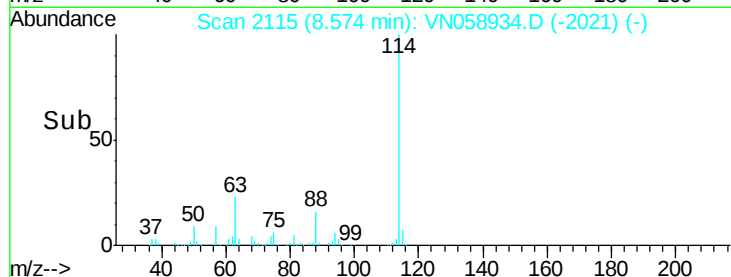
88 16.2 0.0 31.4



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: 49.707 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

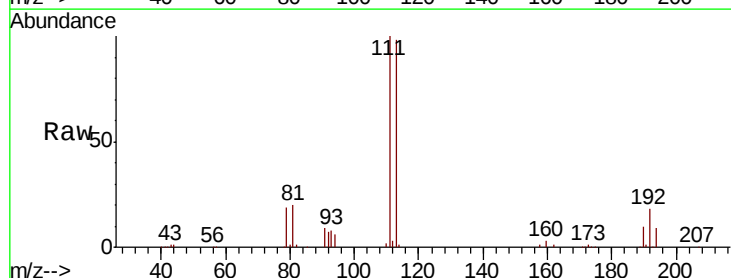
Tgt Ion:113 Resp: 171446

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

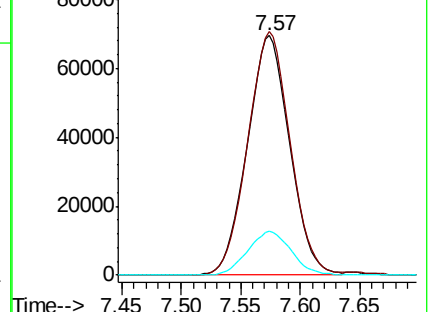
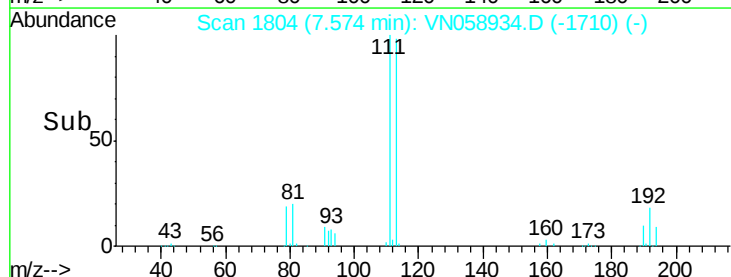
192 18.7 15.0 22.6

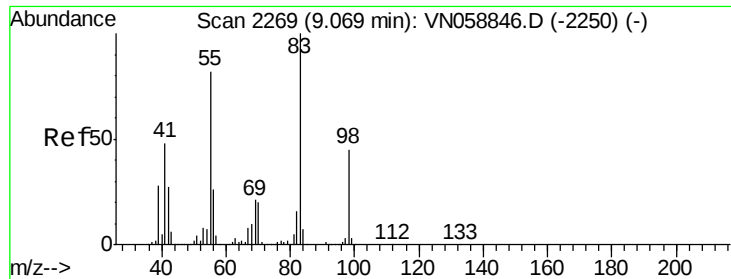


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

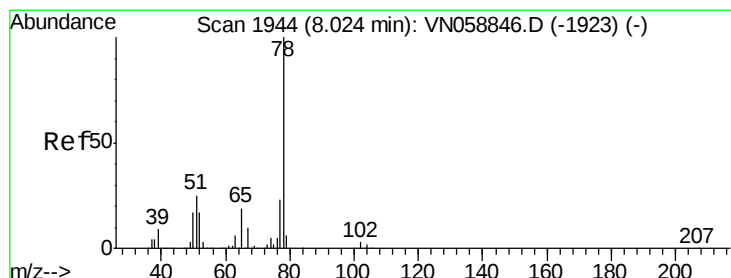
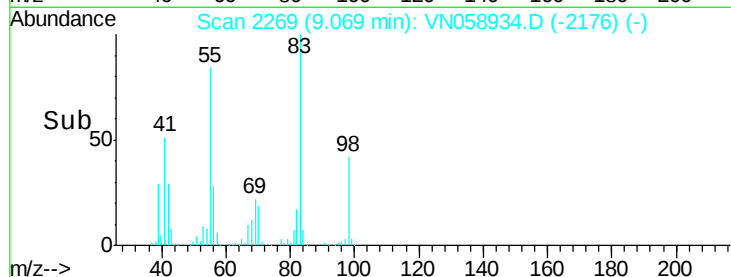
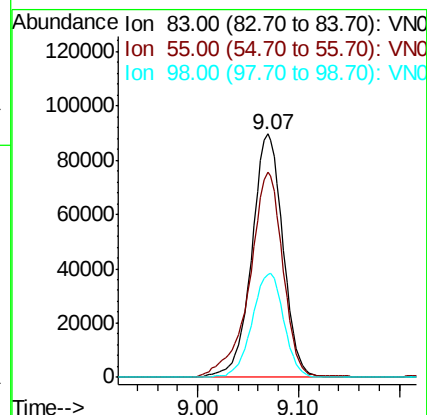
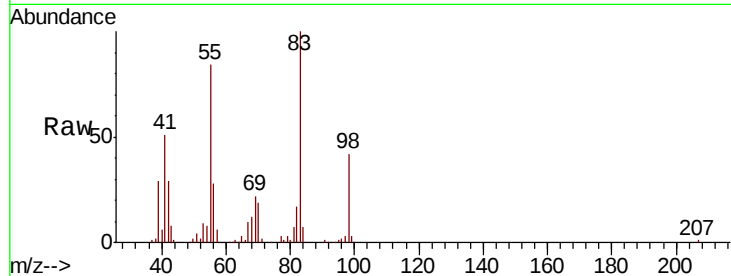




#39
Methvlcvclohexane
Concen: 31.664 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058934.D
Acq: 23 Oct 2019 16:52

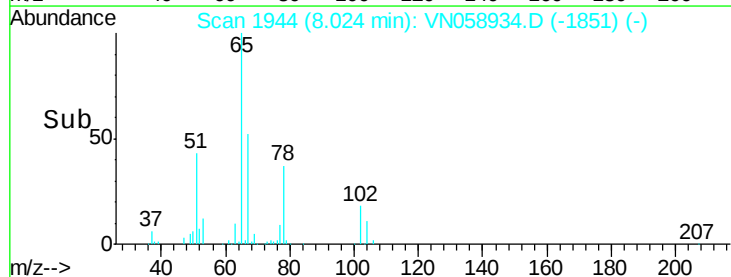
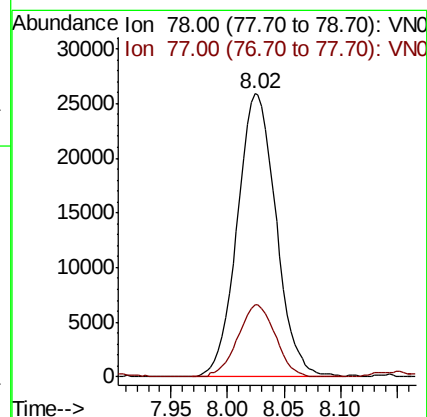
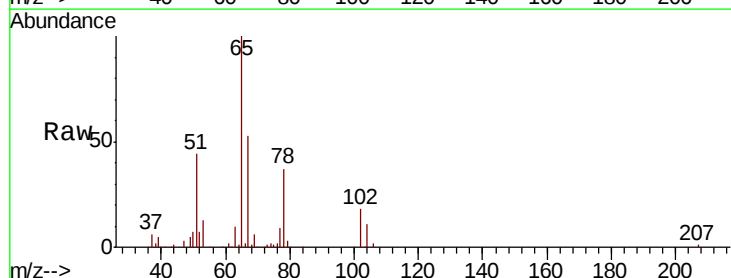
Instrument :
MSVOA_N
ClientSampleId :
S81-0106

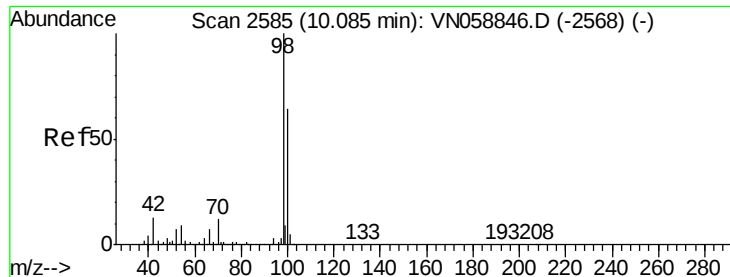
Tot Ion: 83 Resp: 190954
Ion Ratio Lower Upper
83 100
55 84.1 65.5 98.3
98 42.4 35.7 53.5



#40
Benzene
Concen: 3.926 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058934.D
Acq: 23 Oct 2019 16:52

Tgt Ion: 78 Resp: 61924
Ion Ratio Lower Upper
78 100
77 25.6 18.2 27.2





#50

Toluene-d8

Concen: 47.140 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

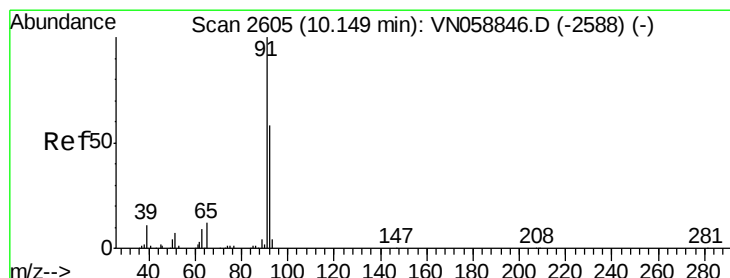
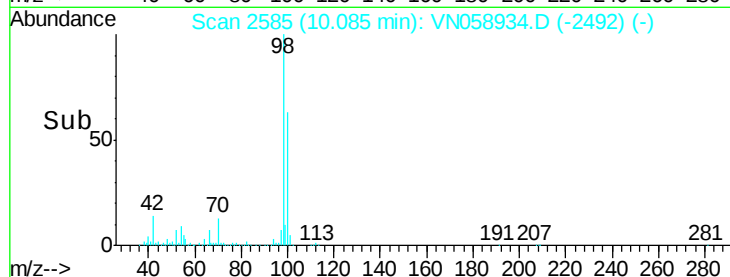
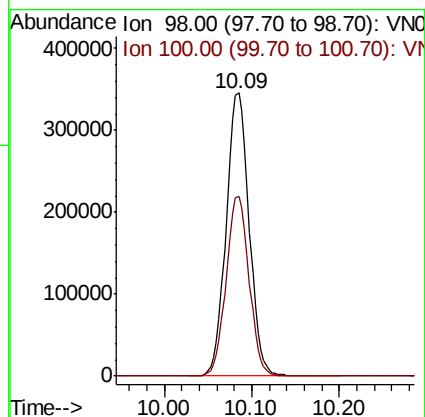
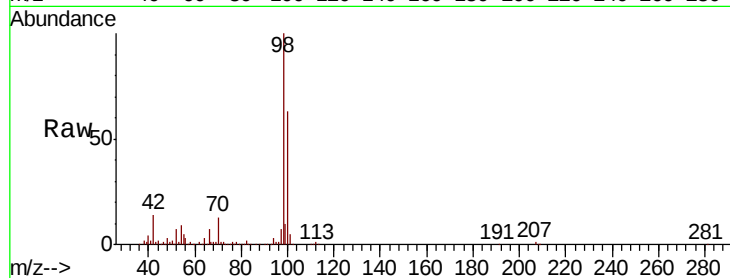
S81-0106

Tot Ion: 98 Resp: 631166

Ion Ratio Lower Upper

98 100

100 63.3 51.4 77.2



#52

Toluene

Concen: 4.357 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058934.D

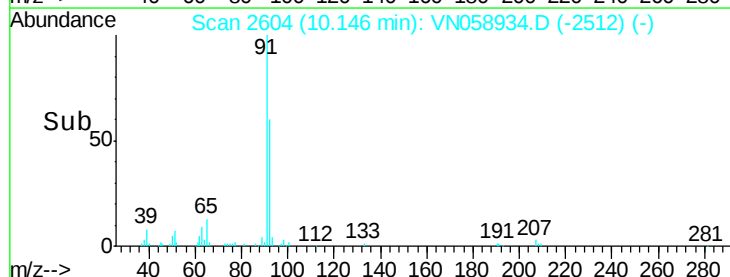
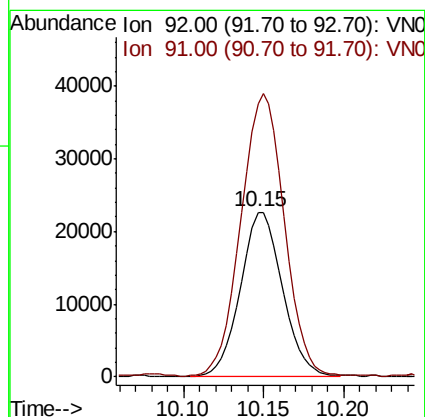
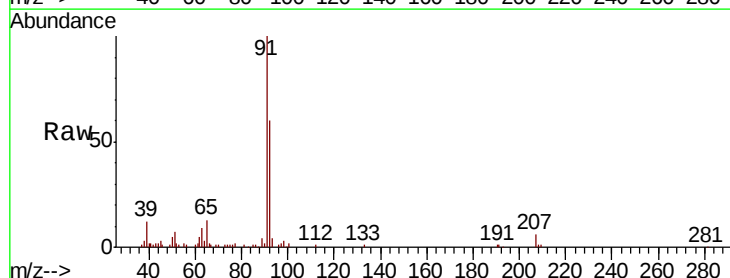
Acq: 23 Oct 2019 16:52

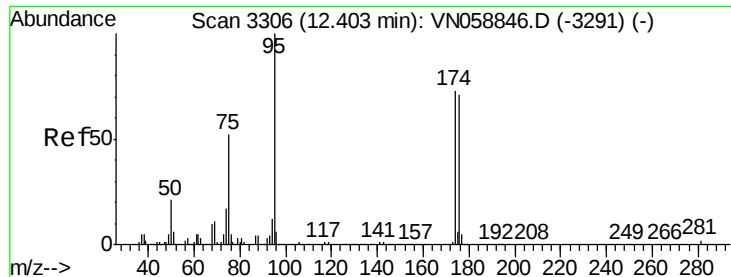
Tgt Ion: 92 Resp: 40750

Ion Ratio Lower Upper

92 100

91 178.1 138.9 208.3





#62

4-Bromofluorobenzene

Concen: 44.541 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampled :

S81-0106

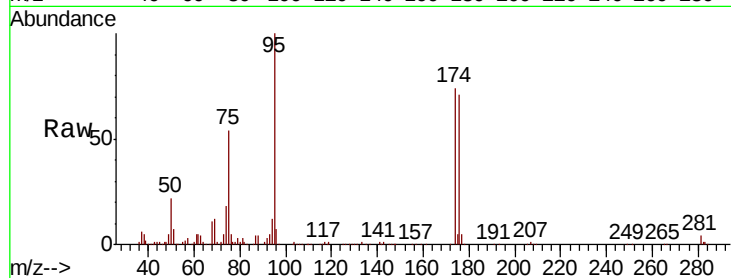
Tot Ion: 95 Resp: 219001

Ion Ratio Lower Upper

95 100

174 76.1 0.0 147.6

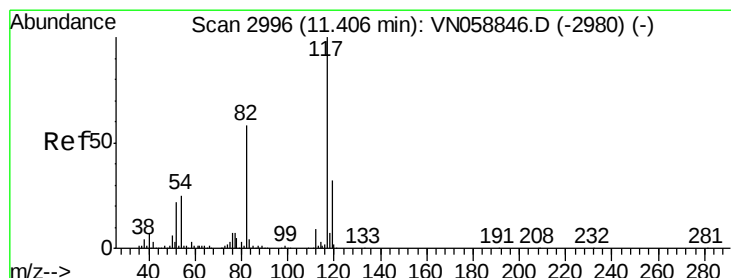
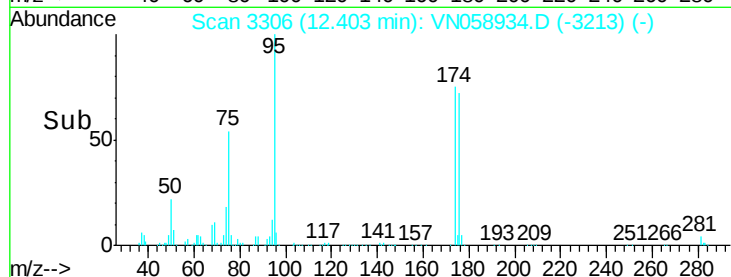
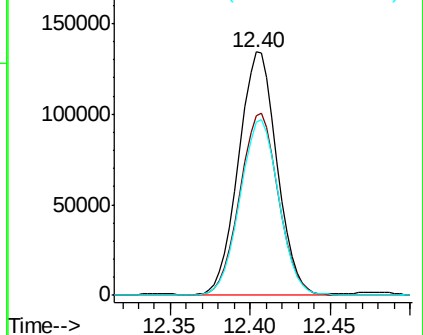
176 73.5 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

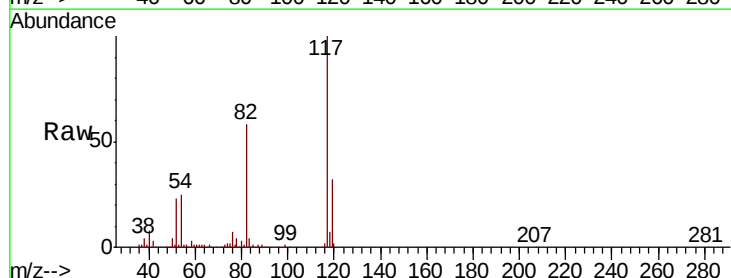
Tgt Ion: 117 Resp: 474411

Ion Ratio Lower Upper

117 100

82 58.2 46.6 69.8

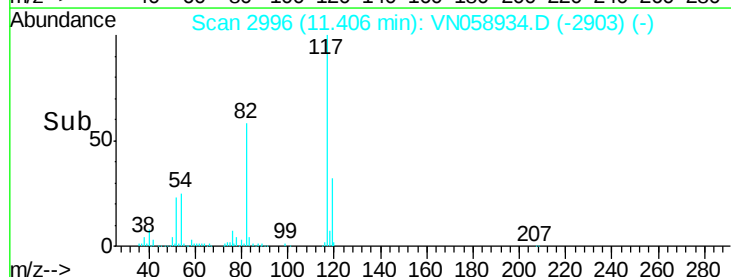
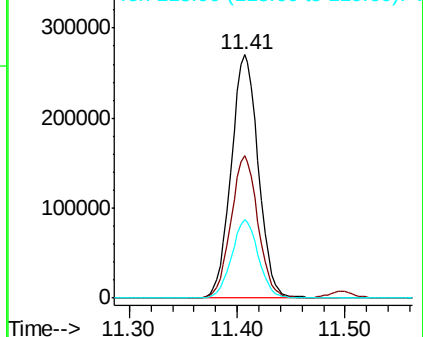
119 32.0 25.6 38.4

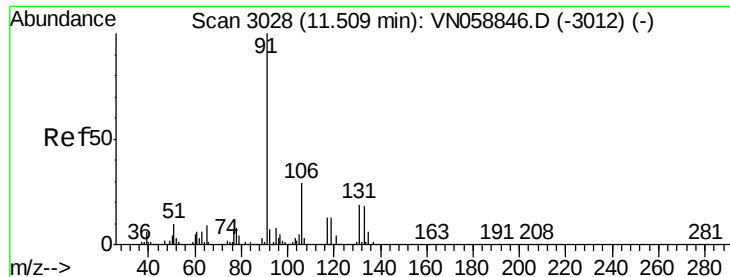


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#67

Ethyl Benzene

Concen: 49.104 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampled :

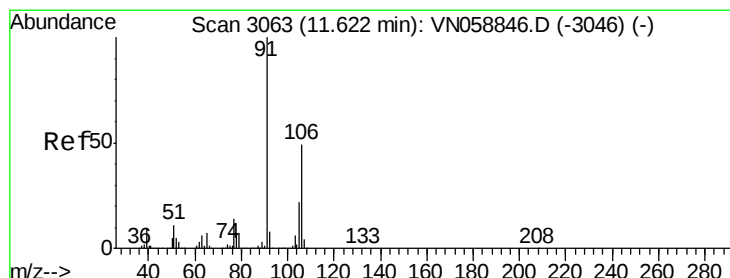
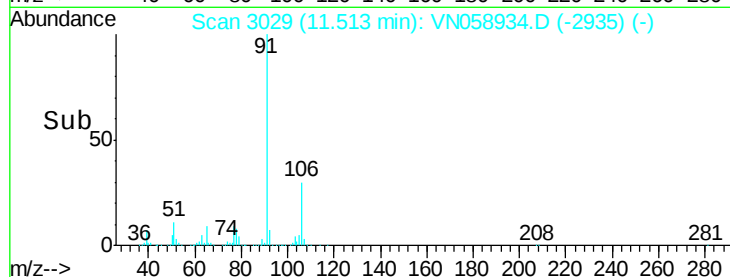
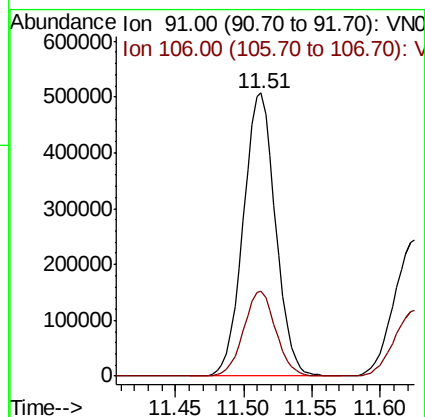
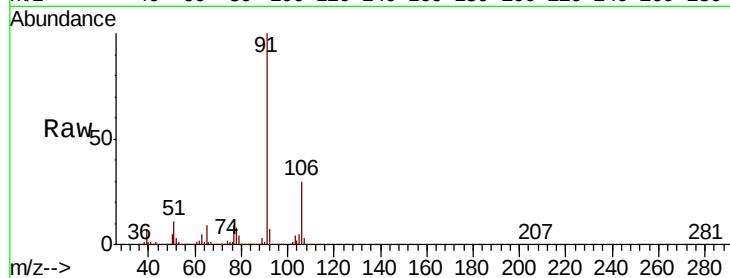
S81-0106

Tot Ion: 91 Resp: 831962

Ion Ratio Lower Upper

91 100

106 29.8 23.4 35.0



#68

m/p-Xylenes

Concen: 35.141 ug/l

RT: 11.63 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VN058934.D

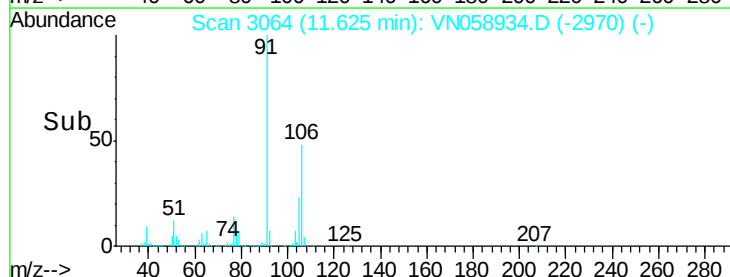
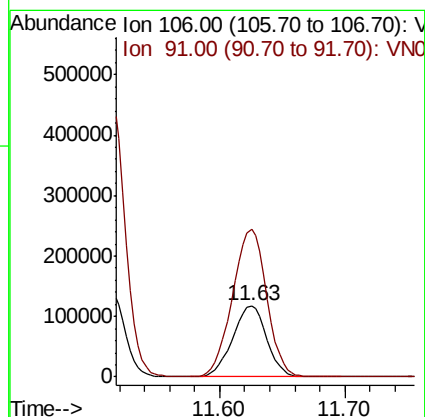
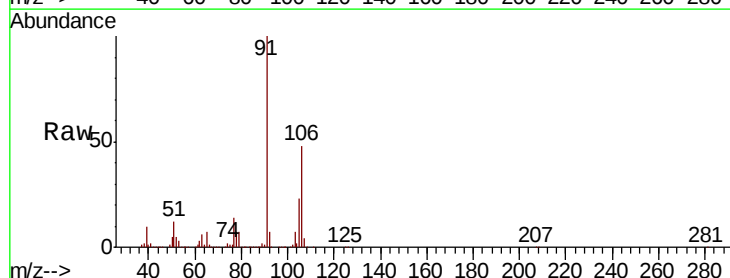
Acq: 23 Oct 2019 16:52

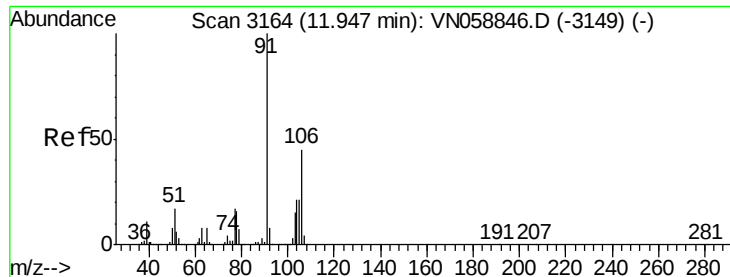
Tgt Ion: 106 Resp: 220803

Ion Ratio Lower Upper

106 100

91 209.4 166.6 249.8

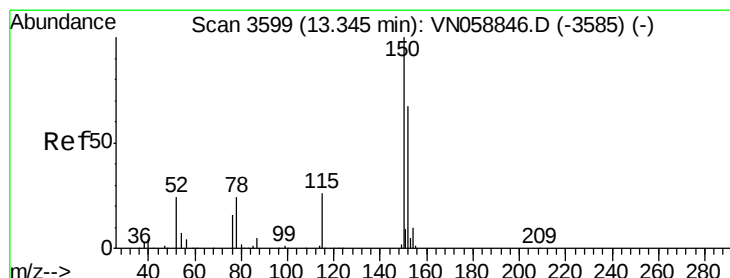
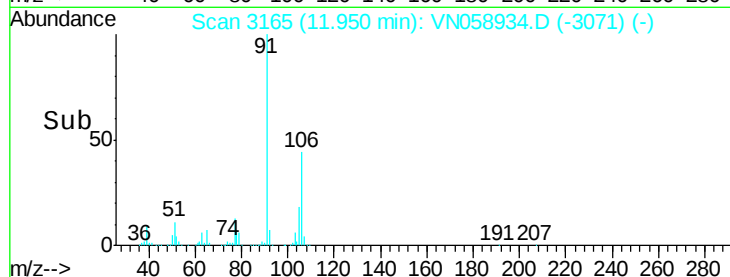
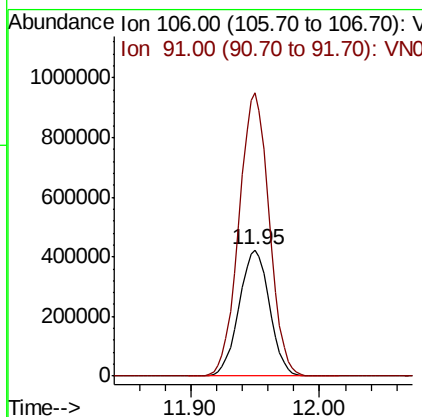
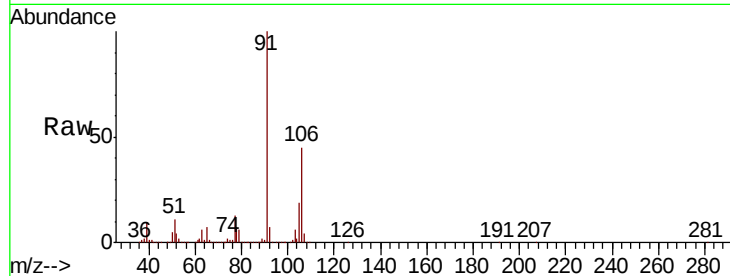




#69
o-Xylene
Concen: 116.378 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058934.D
Acq: 23 Oct 2019 16:52

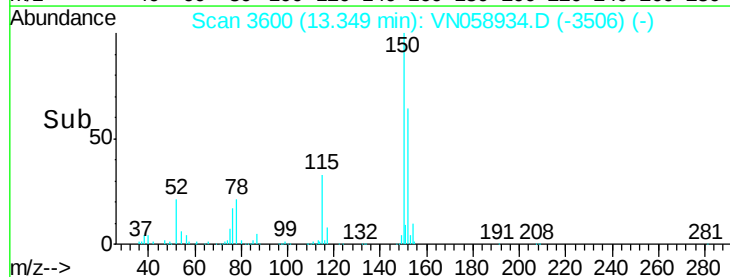
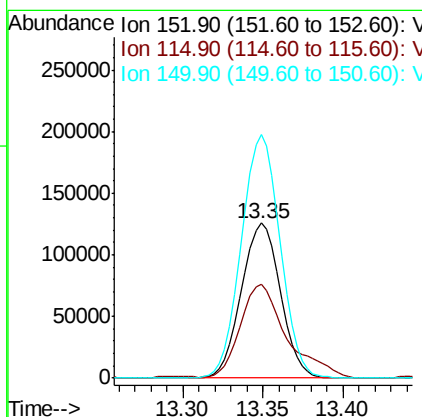
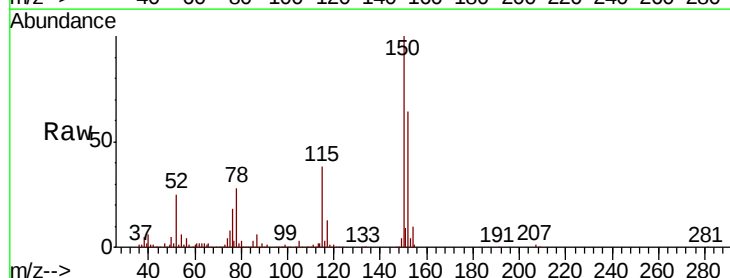
Instrument :
MSVOA_N
ClientSampleId :
S81-0106

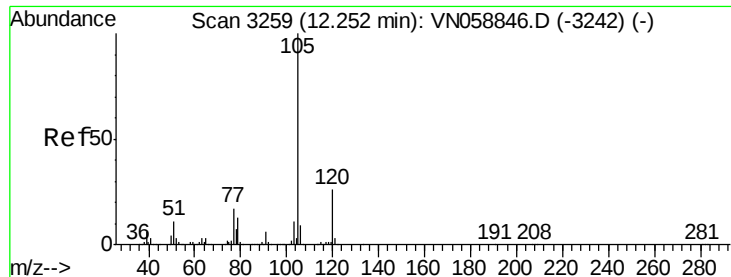
Tot Ion:106 Resp: 697403
Ion Ratio Lower Upper
106 100
91 222.1 111.5 334.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058934.D
Acq: 23 Oct 2019 16:52

Tgt Ion:152 Resp: 209599
Ion Ratio Lower Upper
152 100
115 71.4 30.5 91.5
150 156.3 0.0 344.4





#73

Isopropylbenzene

Concen: 4.488 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

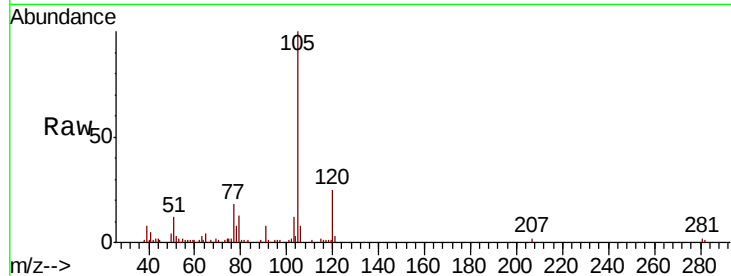
S81-0106

Tot Ion: 105 Resp: 68740

Ion Ratio Lower Upper

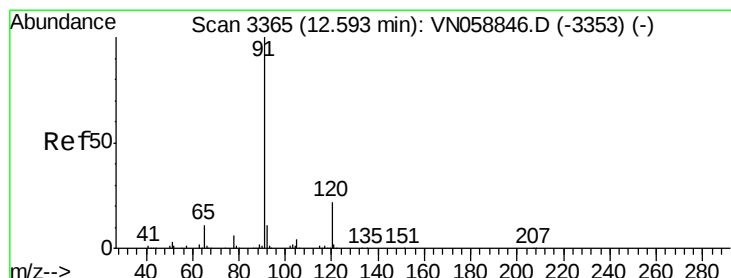
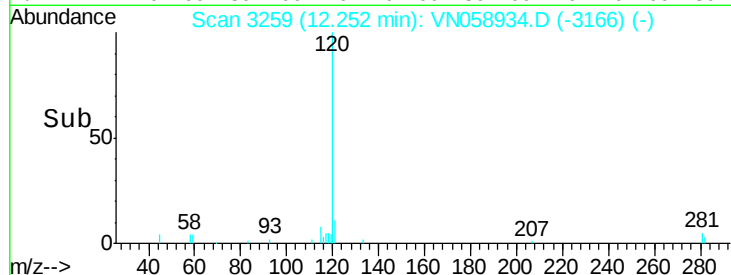
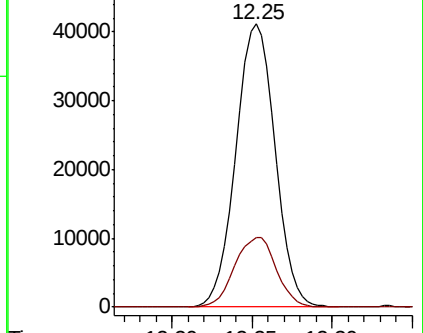
105 100

120 26.2 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 4.878 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN058934.D

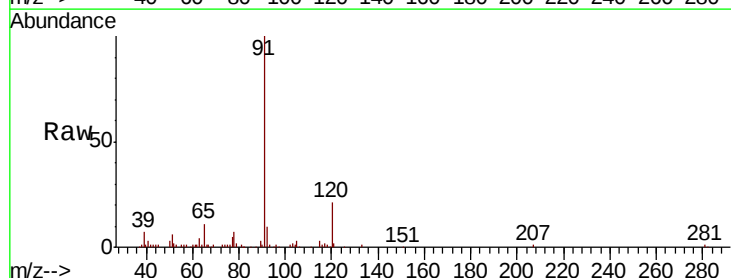
Acq: 23 Oct 2019 16:52

Tgt Ion: 91 Resp: 88331

Ion Ratio Lower Upper

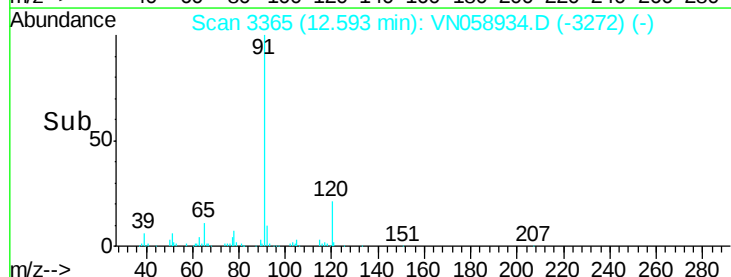
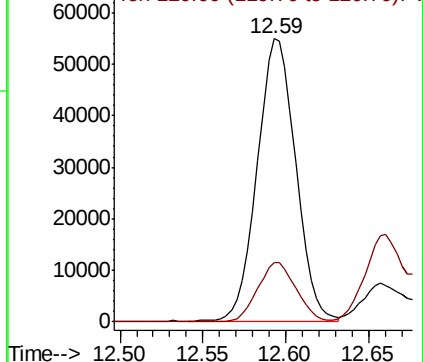
91 100

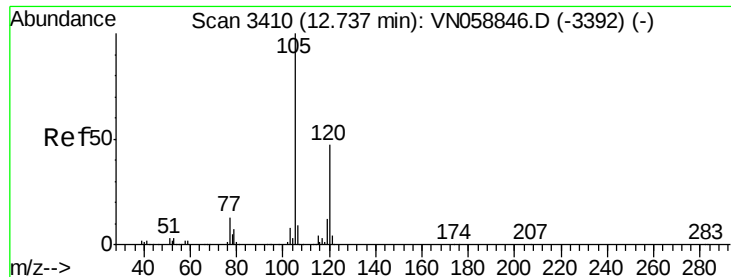
120 21.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 4.382 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

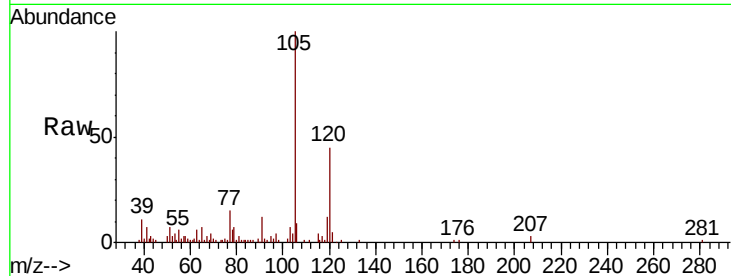
S81-0106

Tot Ion:105 Resp: 56400

Ion Ratio Lower Upper

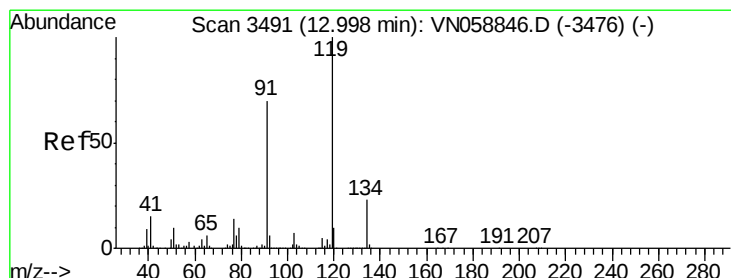
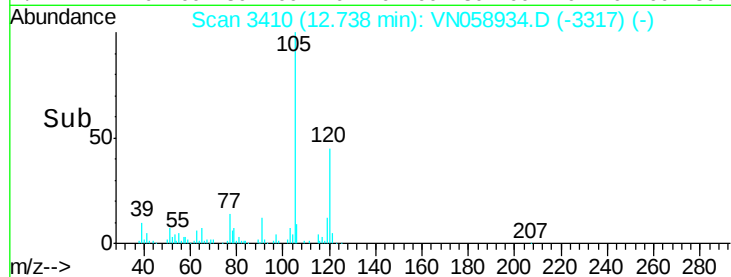
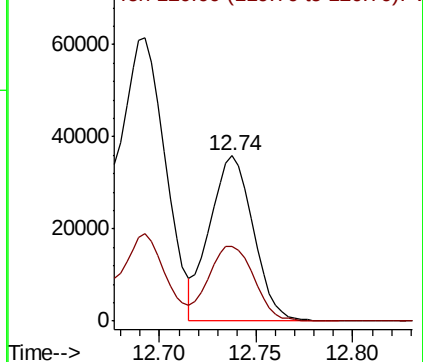
105 100

120 47.1 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#83

tert-Butylbenzene

Concen: 0.364 ug/l

RT: 13.00 min Scan# 3492

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

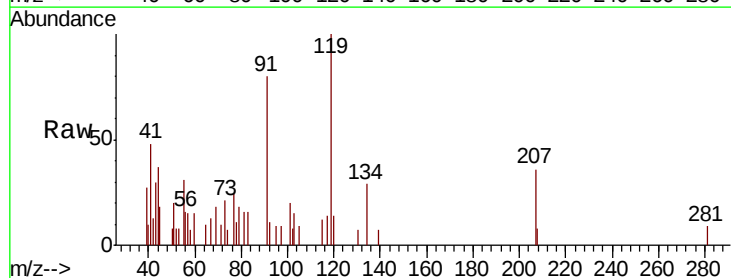
Tgt Ion:119 Resp: 4003

Ion Ratio Lower Upper

119 100

91 62.5 34.1 102.3

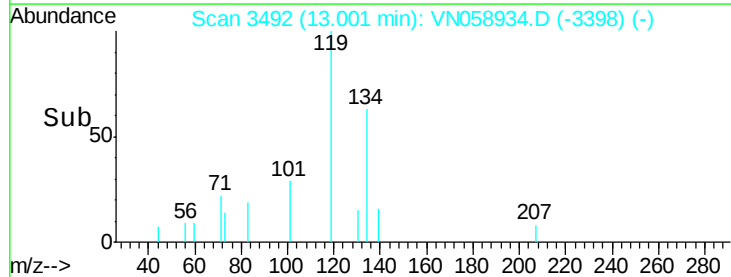
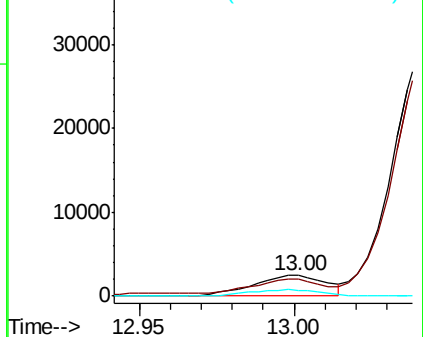
134 29.4 11.6 34.8

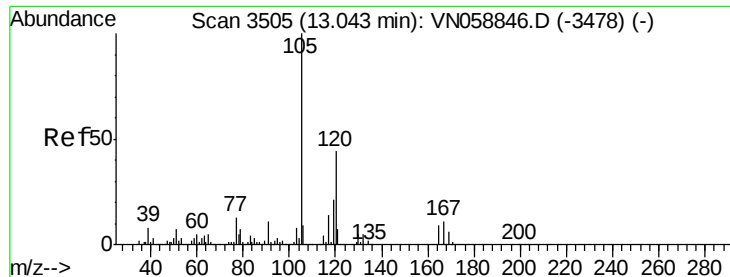


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

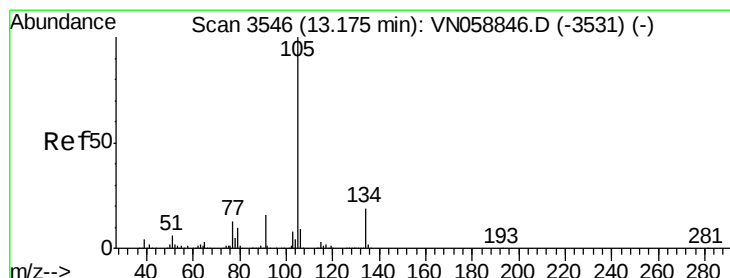
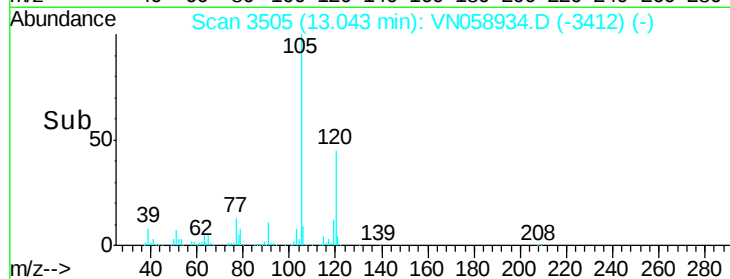
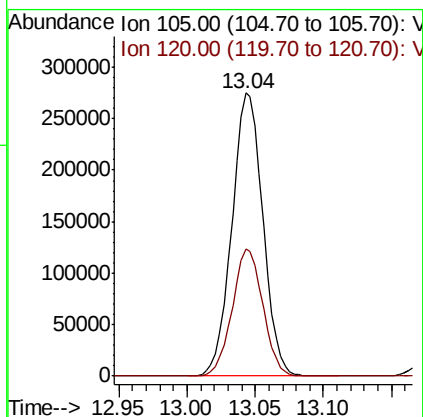
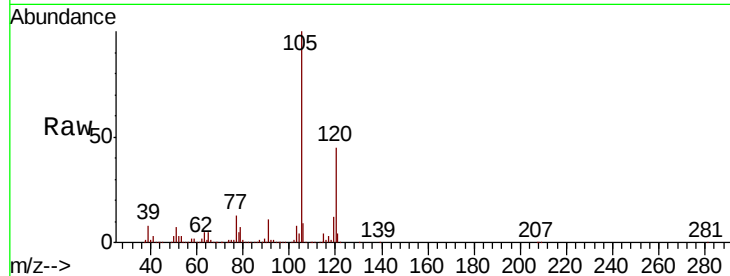




#84
 1,2,4-Trimethylbenzene
 Concen: 34.003 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN058934.D
 Acq: 23 Oct 2019 16:52

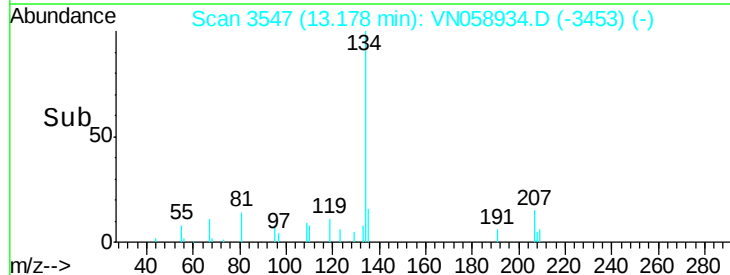
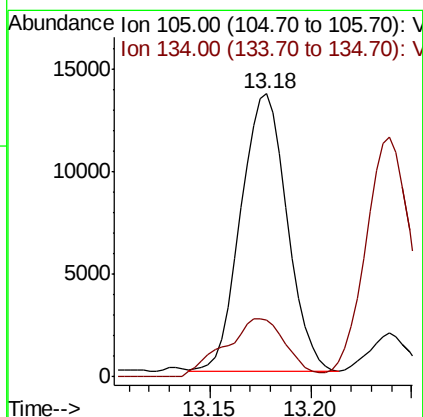
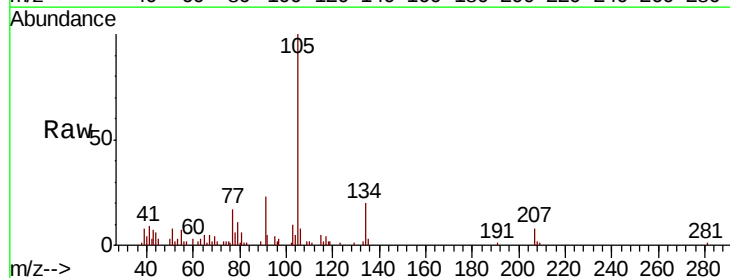
Instrument :
 MSVOA_N
 ClientSampled :
 S81-0106

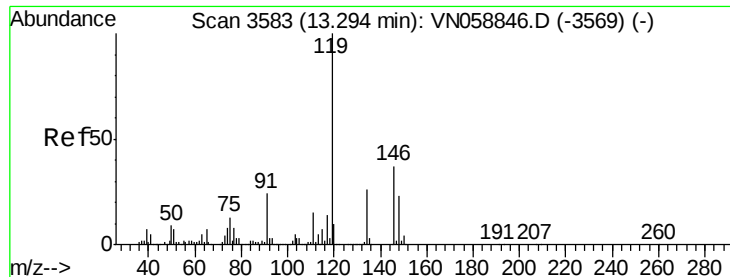
Tot Ion:105 Resp: 431636
 Ion Ratio Lower Upper
 105 100
 120 44.3 21.9 65.8



#85
 sec-Butylbenzene
 Concen: 1.480 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058934.D
 Acq: 23 Oct 2019 16:52

Tgt Ion:105 Resp: 21710
 Ion Ratio Lower Upper
 105 100
 134 27.7 9.4 28.2

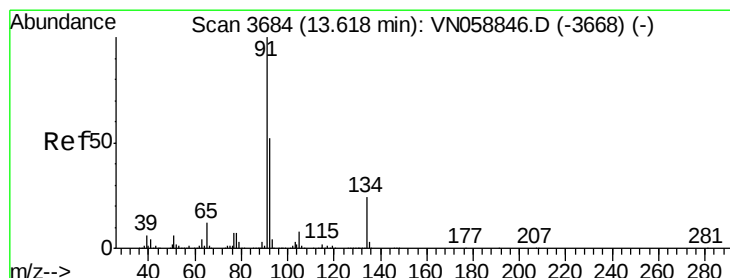
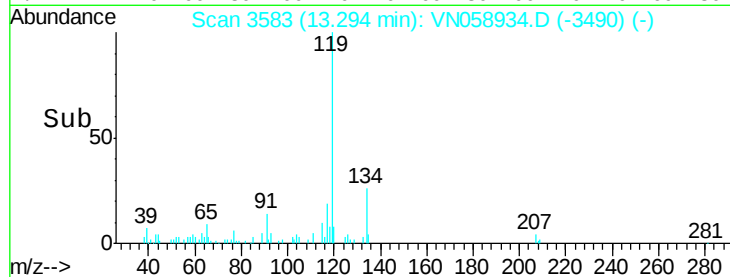
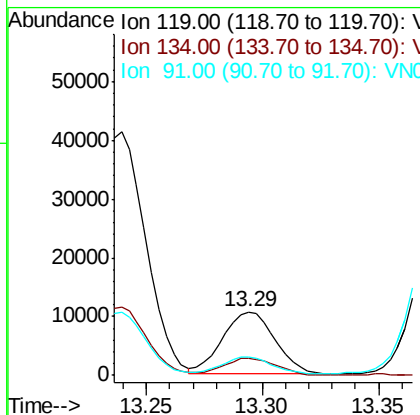
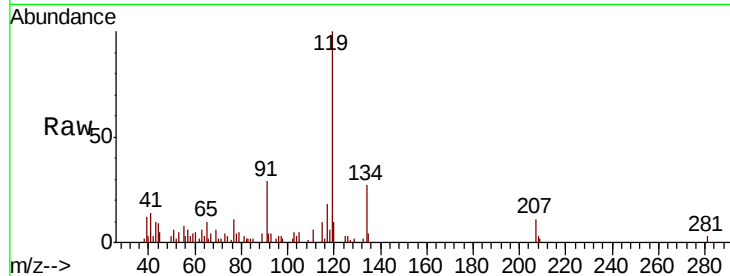




#86
 p-Isopropyltoluene
 Concen: 1.283 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058934.D
 Acq: 23 Oct 2019 16:52

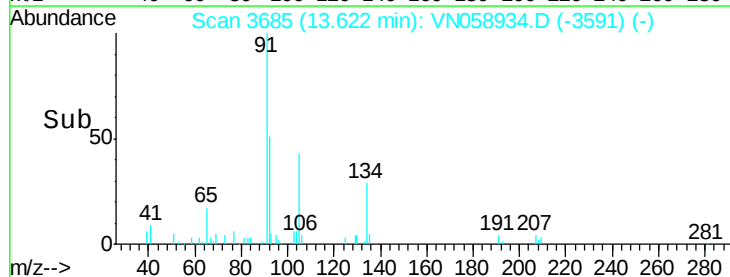
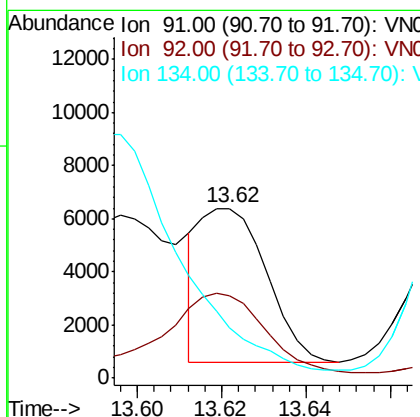
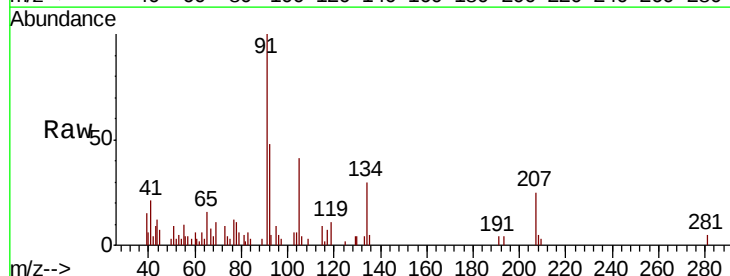
Instrument :
 MSVOA_N
 ClientSampled :
 S81-0106

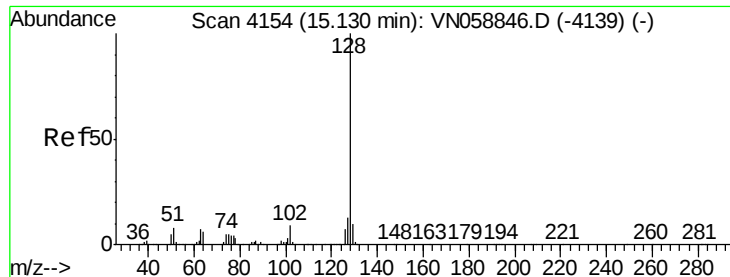
Tot Ion: 119 Resp: 16608
 Ion Ratio Lower Upper
 119 100
 134 27.6 12.8 38.4
 91 25.4 12.2 36.4



#89
 n-Butylbenzene
 Concen: 0.529 ug/l
 RT: 13.62 min Scan# 3685
 Delta R.T. 0.00 min
 Lab File: VN058934.D
 Acq: 23 Oct 2019 16:52

Tgt Ion: 91 Resp: 6295
 Ion Ratio Lower Upper
 91 100
 92 85.2 25.7 77.1#
 134 0.0 11.9 35.5#





#95

Naphthalene

Concen: 7.382 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN058934.D

Acq: 23 Oct 2019 16:52

Instrument :

MSVOA_N

ClientSampleId :

S81-0106

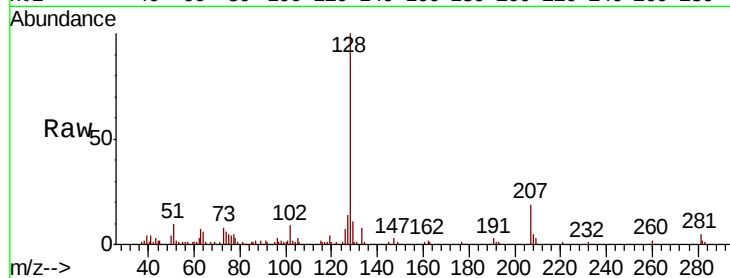
Tot Ion:128 Resp: 64790

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

129 10.9 8.4 12.6



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

