

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060505.D
 Acq On : 13 Mar 2020 16:12
 Operator : JC/MD
 Sample : L1893-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-SA

Quant Time: Mar 16 09:05:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

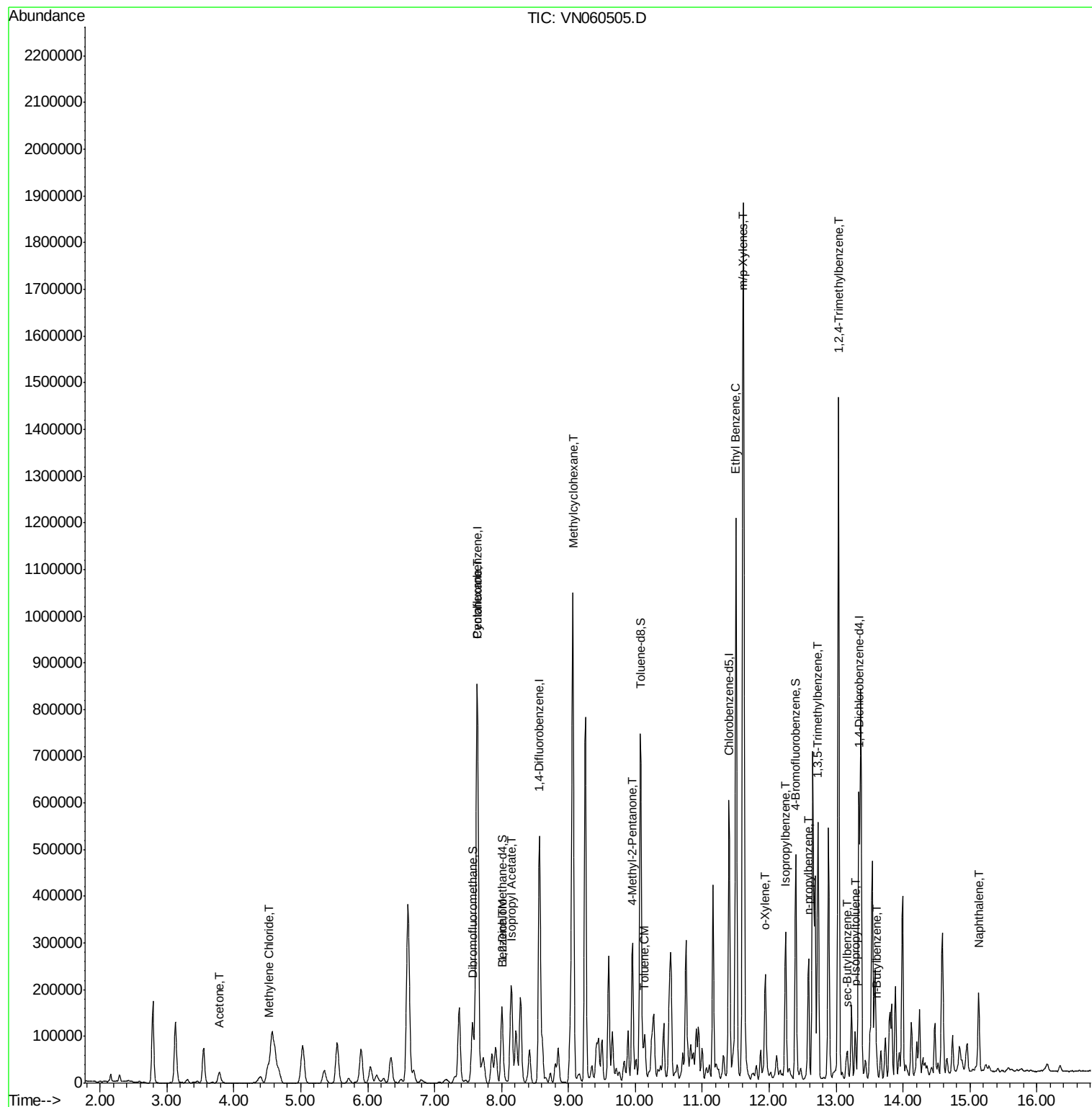
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	334422	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158123	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	129518	49.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.48%	
35) Dibromofluoromethane	7.56	113	99045	63.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	127.62%	
50) Toluene-d8	10.08	98	424600	54.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.10%	
62) 4-Bromofluorobenzene	12.40	95	164840	55.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.70%	
Target Compounds						
					Qvalue	
16) Acetone	3.79	43	26834	31.910	ug/l	89
20) Methylene Chloride	4.52	84	6637	2.874	ug/l #	86
31) Cyclohexane	7.63	56	405470	117.059	ug/l	97
39) Methylcyclohexane	9.07	83	460178	122.457	ug/l	96
40) Benzene	8.02	78	22402	2.415	ug/l	99
43) Isopropyl Acetate	8.14	43	54185	10.256	ug/l #	84
51) 4-Methyl-2-Pentanone	9.97	43	4569	1.525	ug/l	99
52) Toluene	10.14	92	34328	5.891	ug/l	97
67) Ethyl Benzene	11.50	91	847778	72.236	ug/l	99
68) m/p-Xylenes	11.61	106	597480	134.932	ug/l	100
69) o-Xylene	11.94	106	58443	13.841	ug/l	99
73) Isopropylbenzene	12.24	105	207462	17.702	ug/l	99
78) n-propylbenzene	12.59	91	207448	15.100	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	294519	29.847	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	822051	82.537	ug/l	100
85) sec-Butylbenzene	13.17	105	36496	3.190	ug/l #	78
86) p-Isopropyltoluene	13.28	119	53810	5.082	ug/l	100
89) n-Butylbenzene	13.61	91	16648m	1.713	ug/l	
95) Naphthalene	15.13	128	143142	15.003	ug/l	99

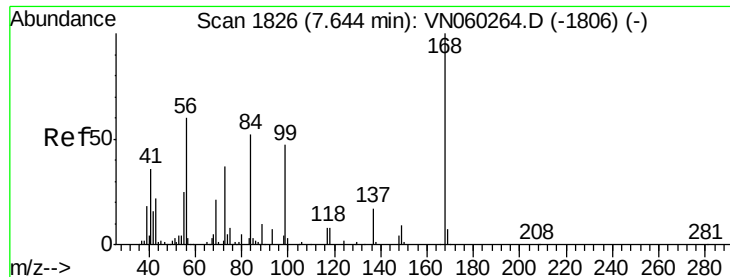
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampleId :

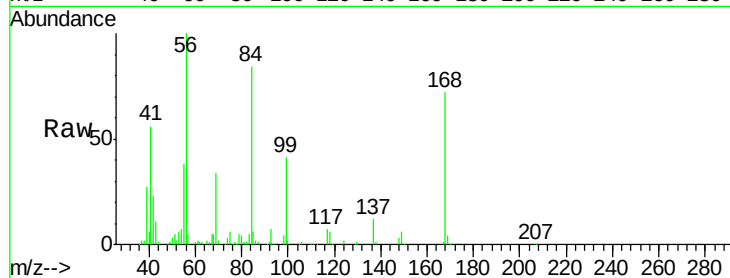
TP-14-SA

Tot Ion:168 Resp: 202964

Ion Ratio Lower Upper

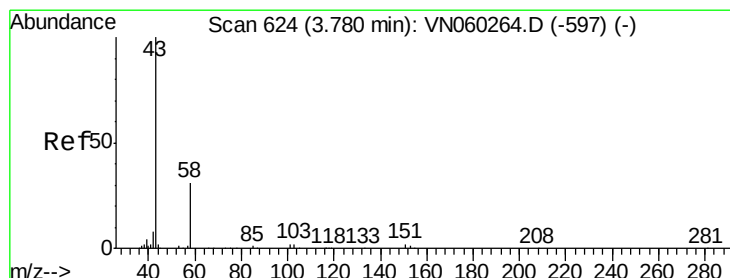
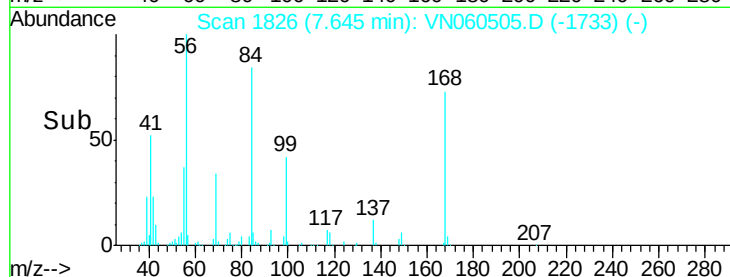
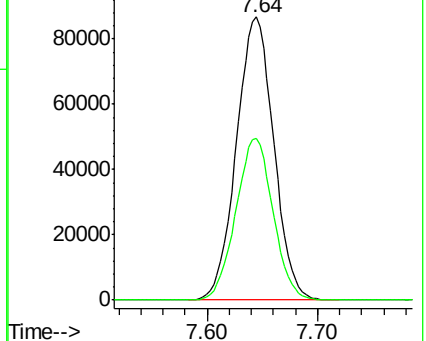
168 100

99 57.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 31.910 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060505.D

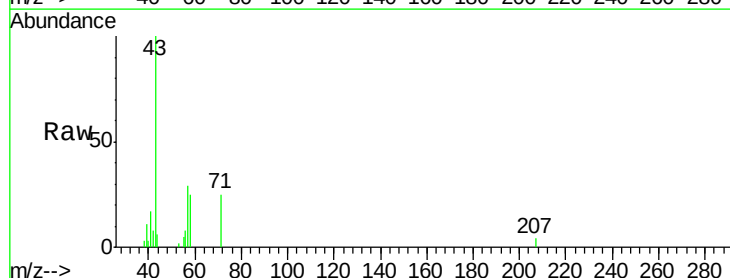
Acq: 13 Mar 2020 16:12

Tgt Ion: 43 Resp: 26834

Ion Ratio Lower Upper

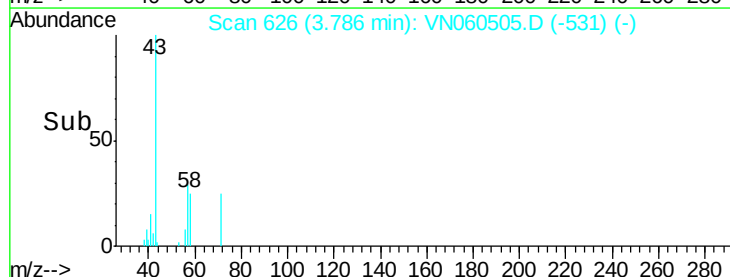
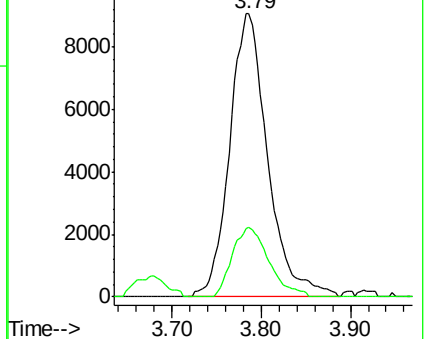
43 100

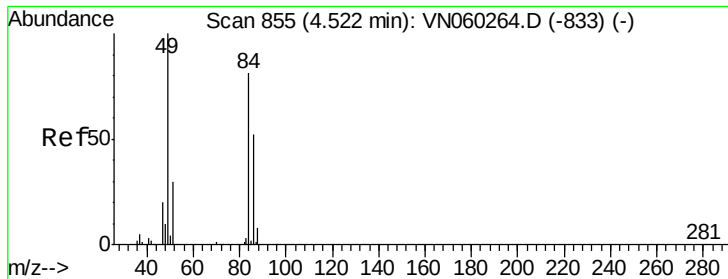
58 24.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

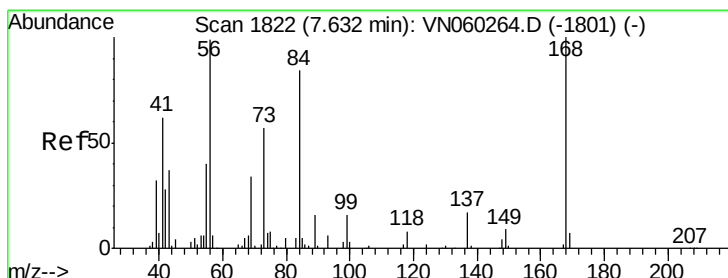
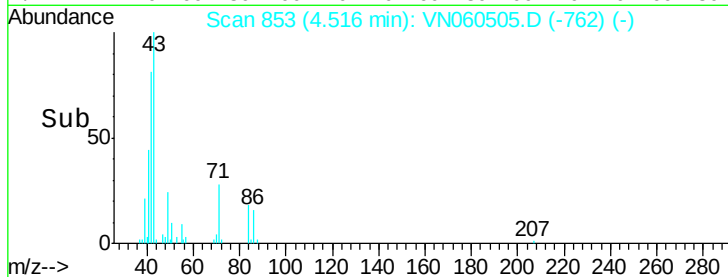
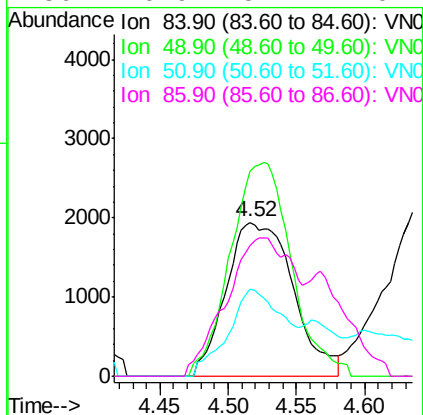
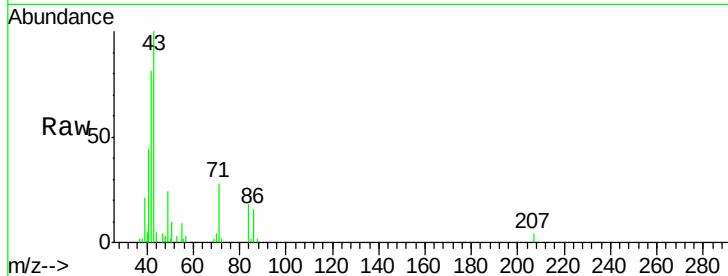




#20
Methylene Chloride
Concen: 2.874 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060505.D
Acq: 13 Mar 2020 16:12

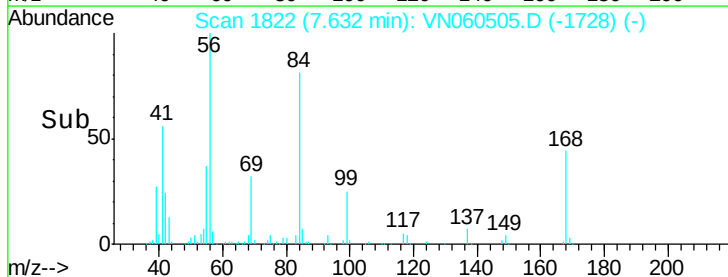
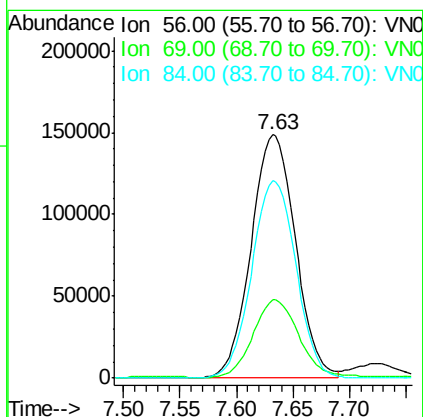
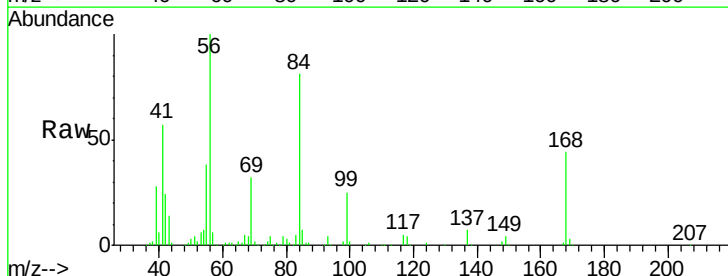
Instrument :
MSVOA_N
ClientSampled :
TP-14-SA

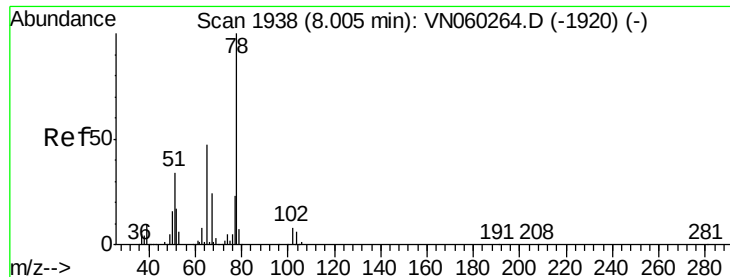
Tot Ion:	84	Resp:	6637
Ion	Ratio	Lower	Upper
84	100		
49	133.1	99.3	148.9
51	56.3	30.1	45.1#
86	76.9	51.1	76.7#



#31
Cyclohexane
Concen: 117.059 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN060505.D
Acq: 13 Mar 2020 16:12

Tgt Ion:	56	Resp:	405470
Ion	Ratio	Lower	Upper
56	100		
69	31.6	27.2	40.8
84	81.3	66.7	100.1

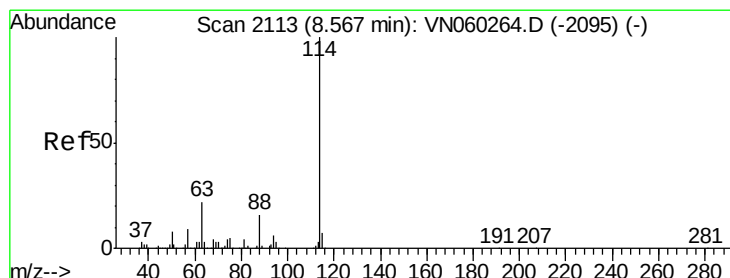
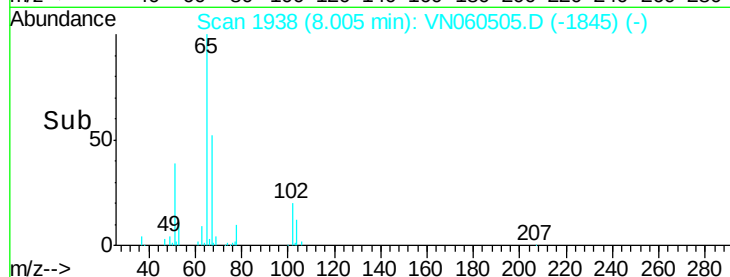
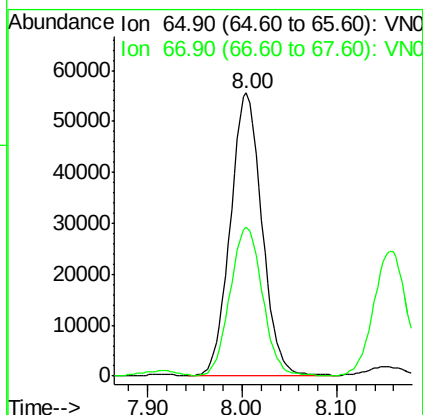
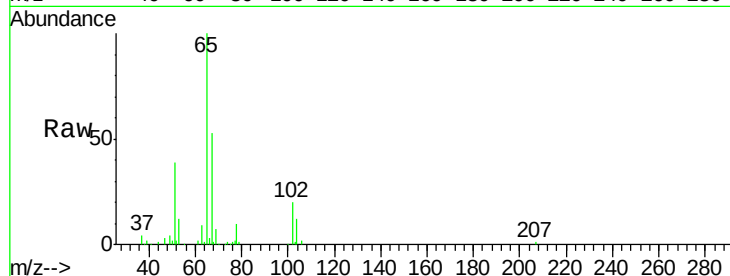




#33
 1,2-Dichloroethane-d4
 Concen: 49.737 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

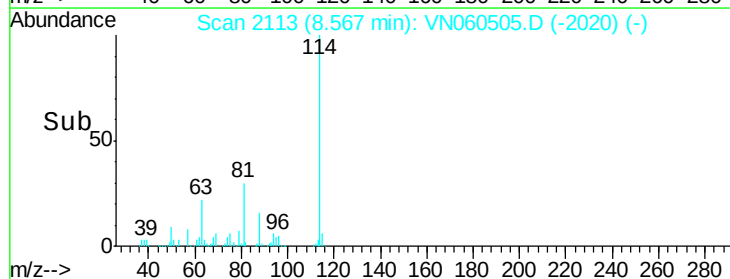
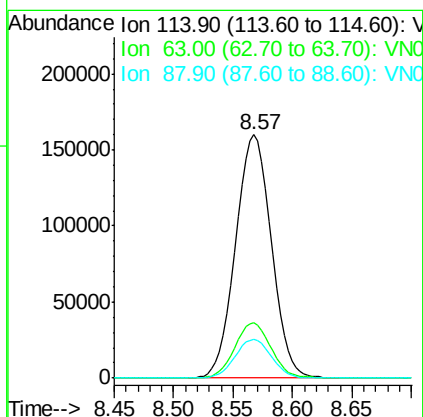
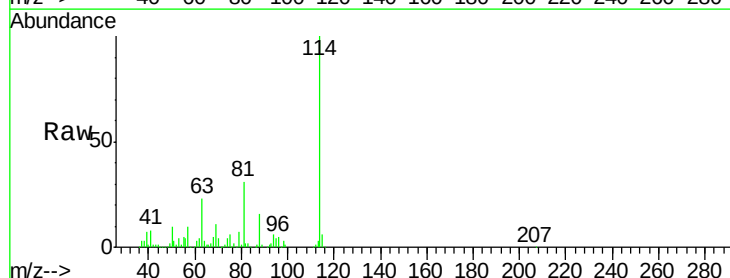
Instrument :
 MSVOA_N
 ClientSampled :
 TP-14-SA

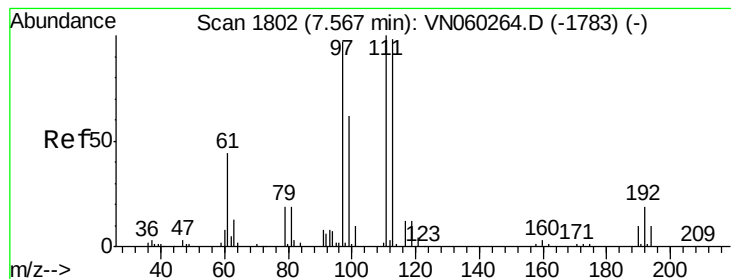
Tot Ion: 65 Resp: 129518
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

Tgt Ion: 114 Resp: 334422
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.2
 88 15.8 0.0 31.6





#35

Dibromofluoromethane

Concen: 63.806 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampleId :

TP-14-SA

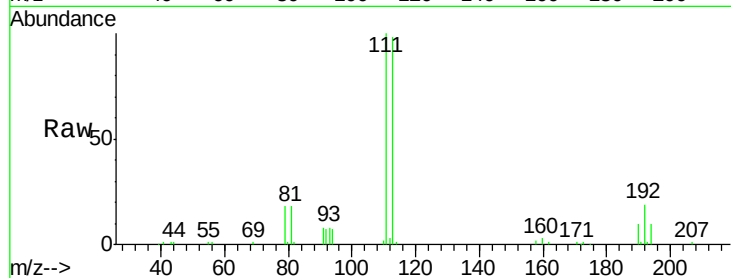
Tot Ion:113 Resp: 99045

Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

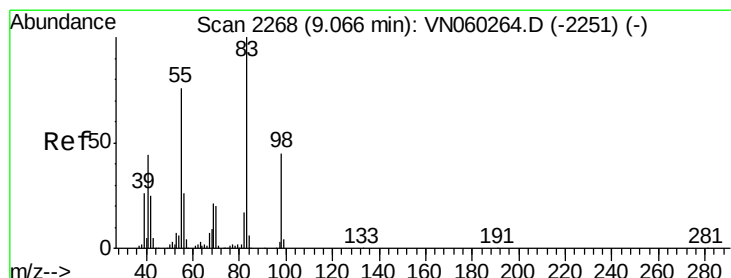
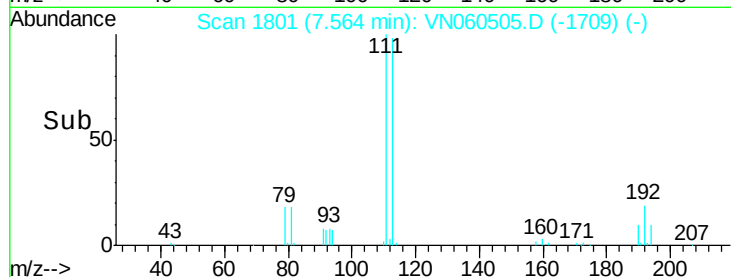
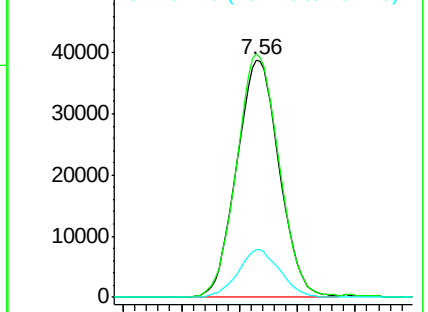
192 19.6 16.2 24.2



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

Methylcyclohexane

Concen: 122.457 ug/l

RT: 9.07 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

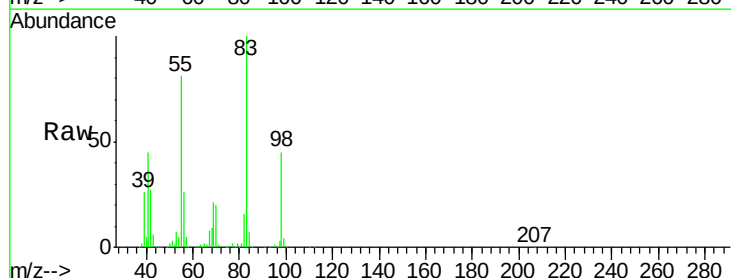
Tgt Ion: 83 Resp: 460178

Ion Ratio Lower Upper

83 100

55 80.9 61.0 91.4

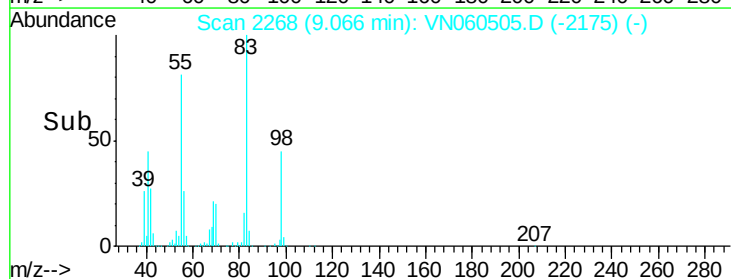
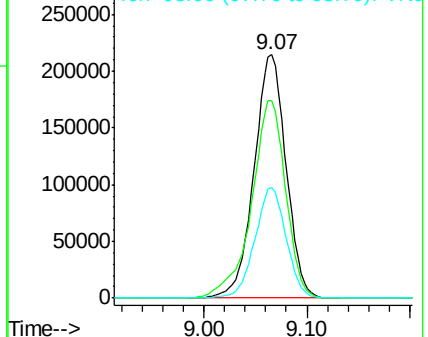
98 45.3 36.1 54.1

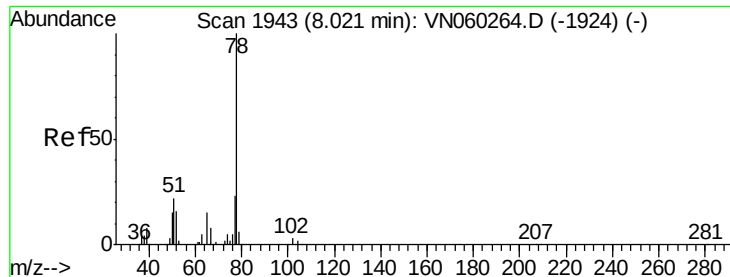


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 2.415 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampled :

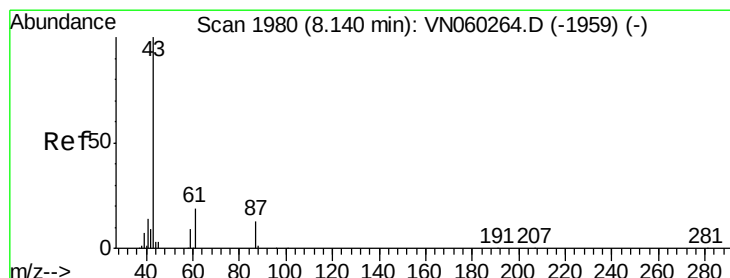
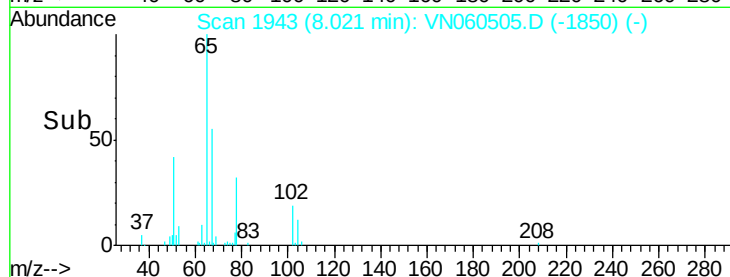
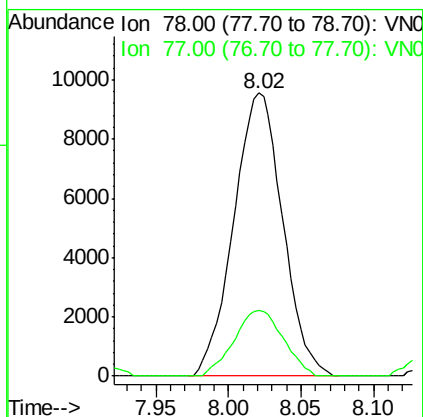
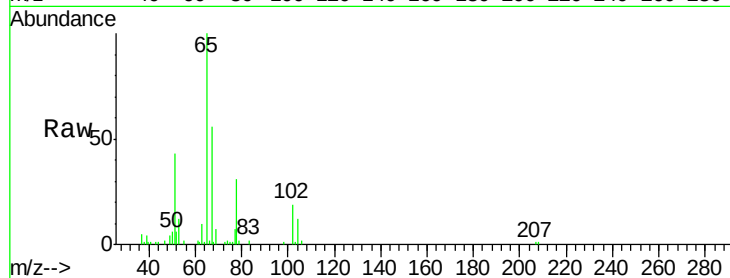
TP-14-SA

Tot Ion: 78 Resp: 22402

Ion Ratio Lower Upper

78 100

77 23.0 18.8 28.2



#43

Isopropyl Acetate

Concen: 10.256 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

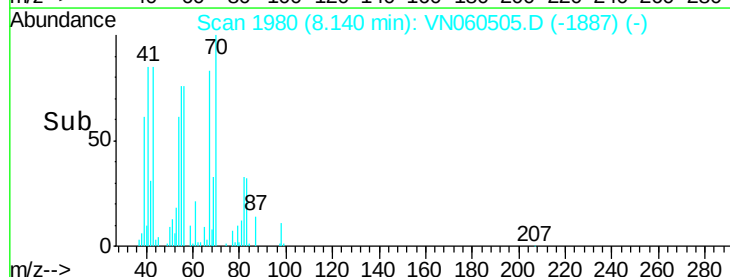
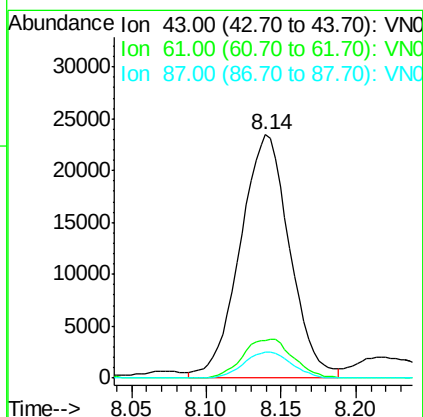
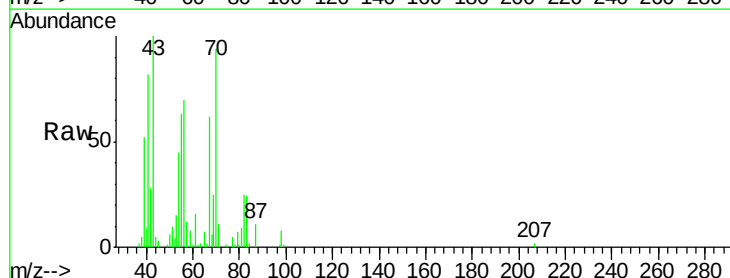
Tgt Ion: 43 Resp: 54185

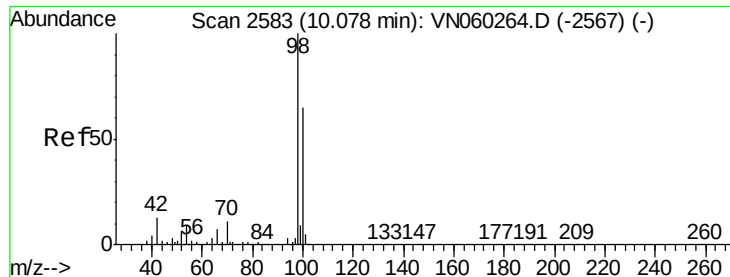
Ion Ratio Lower Upper

43 100

61 16.1 20.9 31.3#

87 10.1 10.6 16.0#





#50

Toluene-d8

Concen: 54.046 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampled :

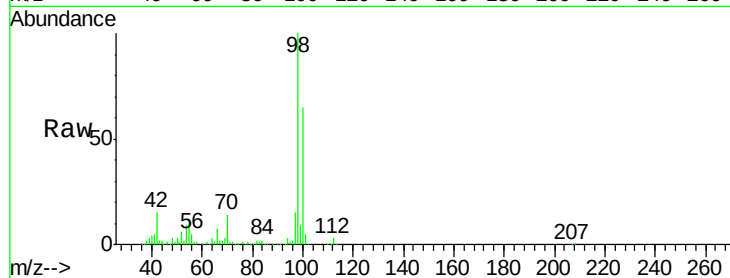
TP-14-SA

Tot Ion: 98 Resp: 424600

Ion Ratio Lower Upper

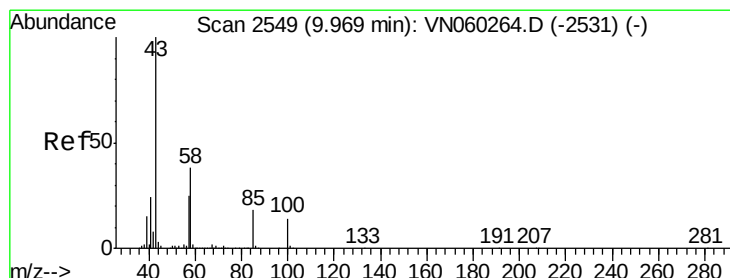
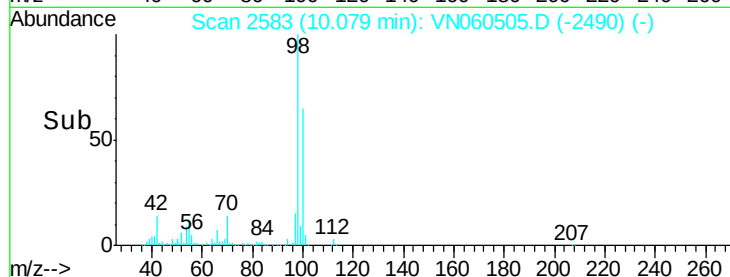
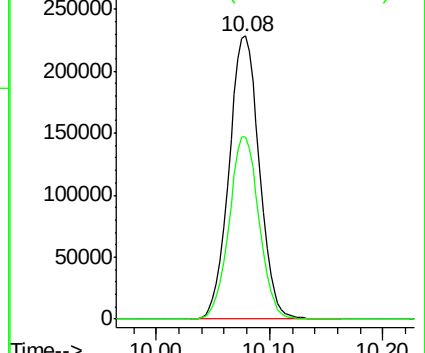
98 100

100 63.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.525 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060505.D

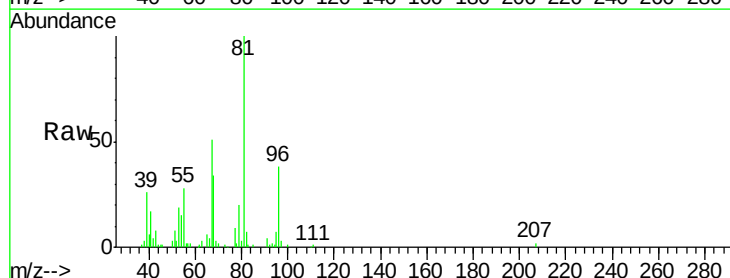
Acq: 13 Mar 2020 16:12

Tgt Ion: 43 Resp: 4569

Ion Ratio Lower Upper

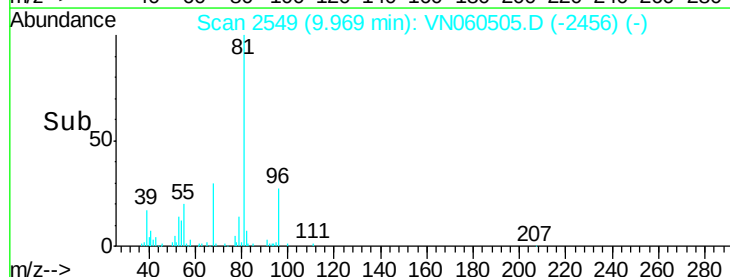
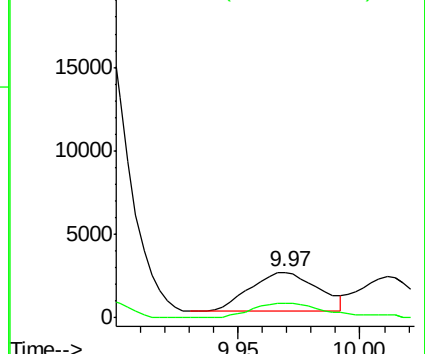
43 100

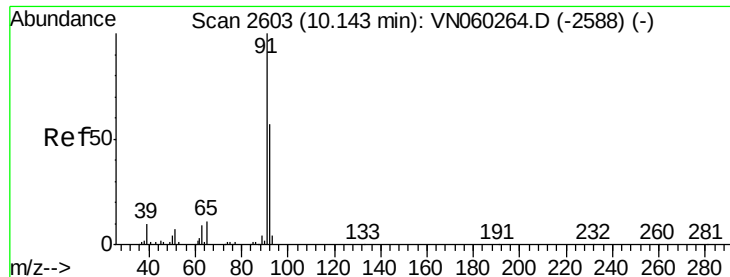
58 39.0 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 5.891 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampleId :

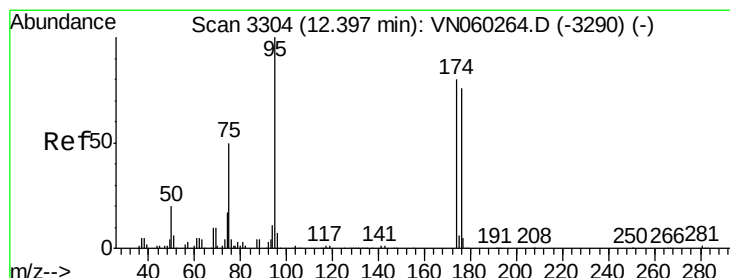
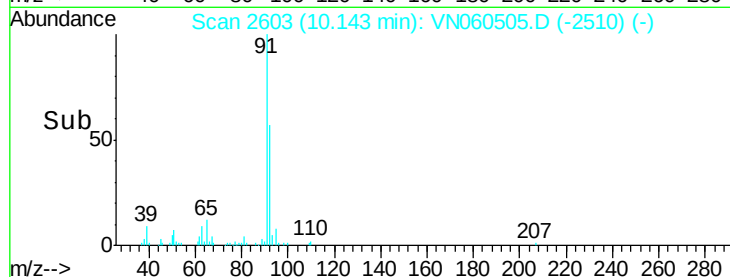
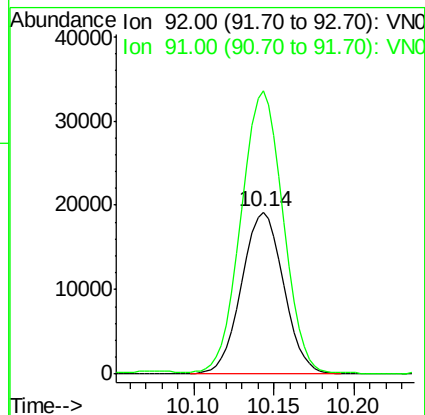
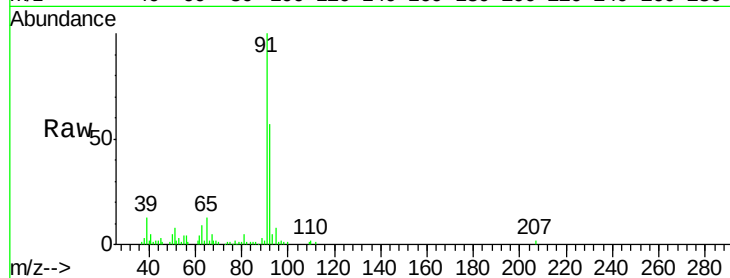
TP-14-SA

Tot Ion: 92 Resp: 34328

Ion Ratio Lower Upper

92 100

91 176.6 138.1 207.1



#62

4-Bromofluorobenzene

Concen: 55.350 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

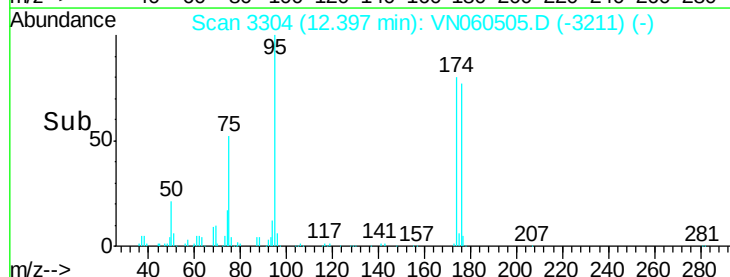
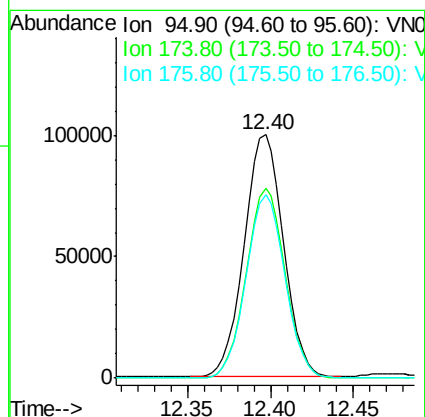
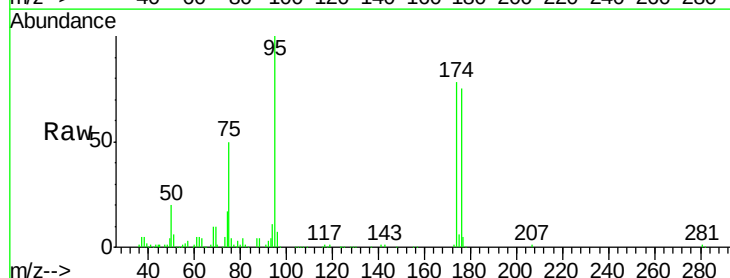
Tgt Ion: 95 Resp: 164840

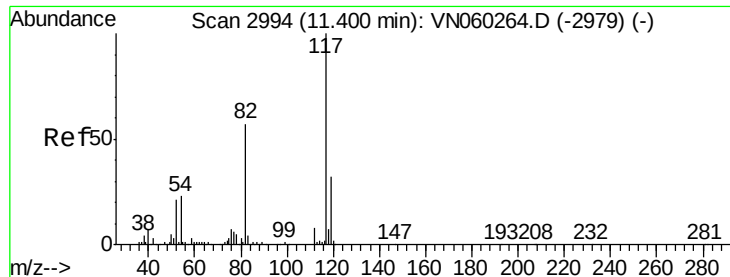
Ion Ratio Lower Upper

95 100

174 77.5 0.0 159.2

176 74.9 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampled :

TP-14-SA

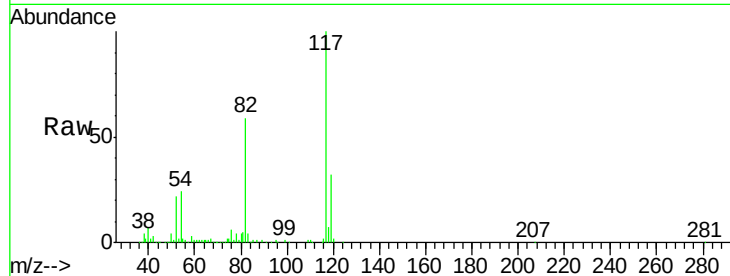
Tot Ion:117 Resp: 319161

Ion Ratio Lower Upper

117 100

82 59.2 45.8 68.6

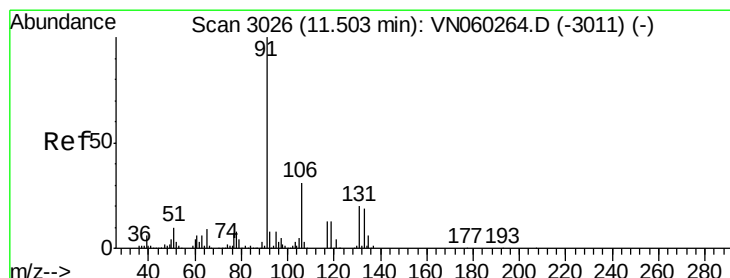
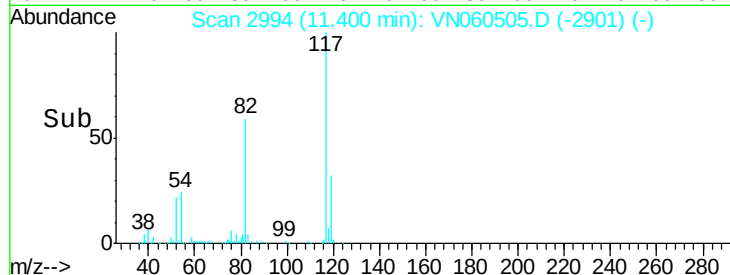
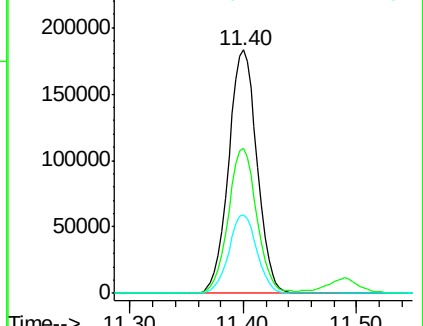
119 32.3 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 72.236 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060505.D

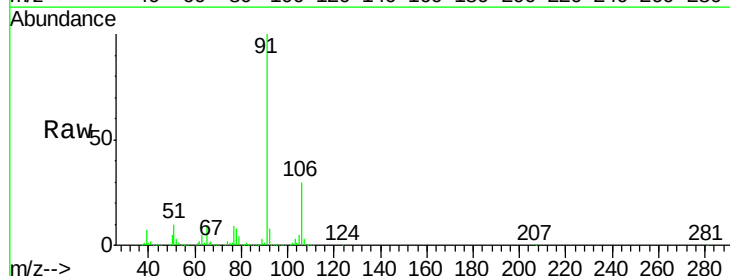
Acq: 13 Mar 2020 16:12

Tgt Ion: 91 Resp: 847778

Ion Ratio Lower Upper

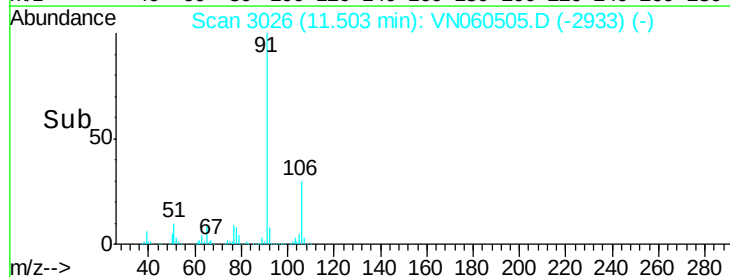
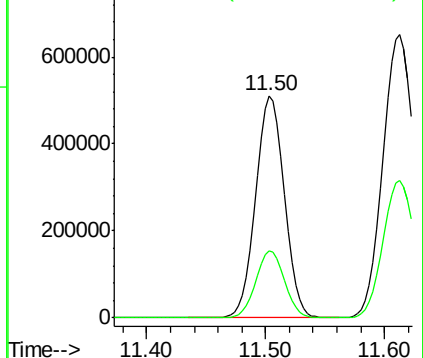
91 100

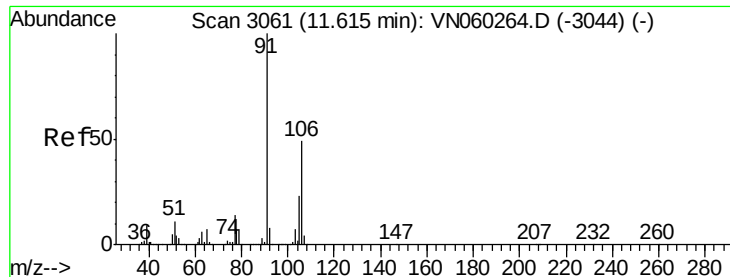
106 30.4 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 134.932 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampled :

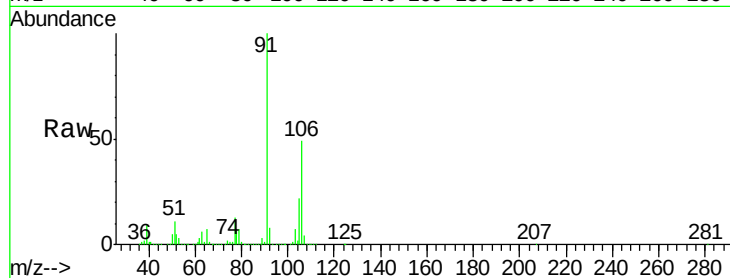
TP-14-SA

Tot Ion:106 Resp: 597480

Ion Ratio Lower Upper

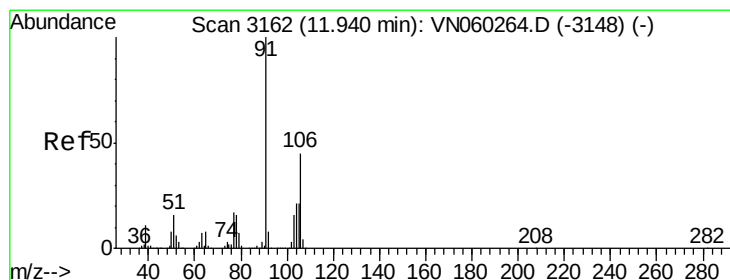
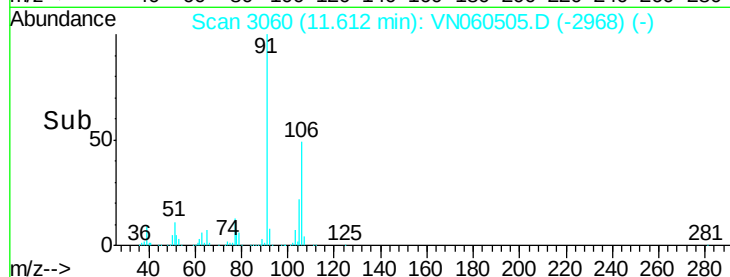
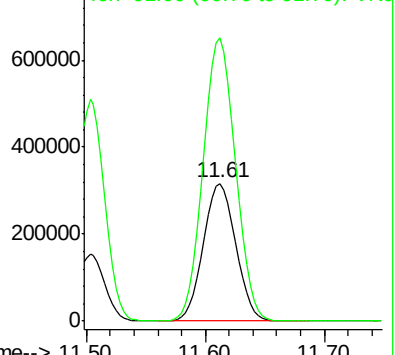
106 100

91 204.8 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 13.841 ug/l

RT: 11.94 min Scan# 3162

Delta R.T. 0.00 min

Lab File: VN060505.D

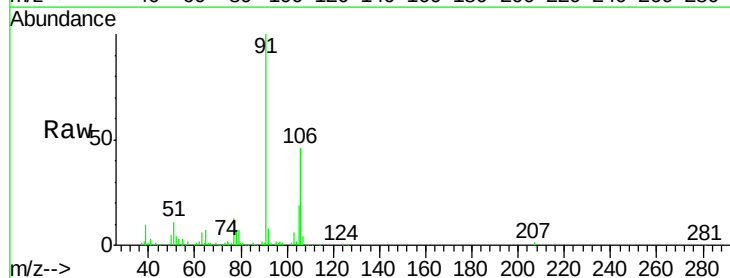
Acq: 13 Mar 2020 16:12

Tgt Ion:106 Resp: 58443

Ion Ratio Lower Upper

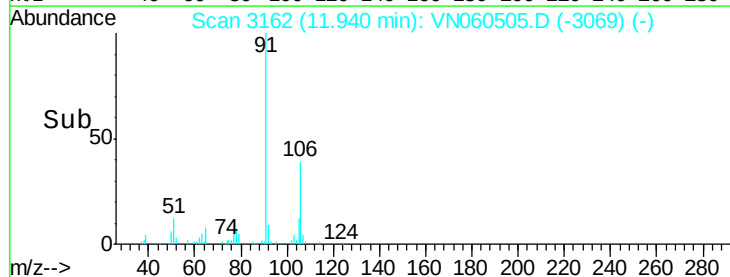
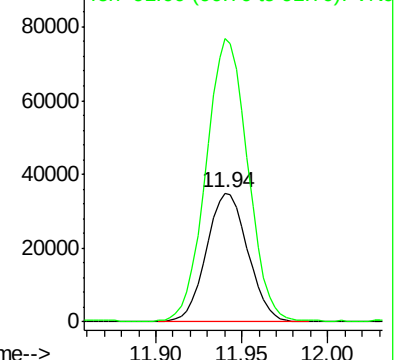
106 100

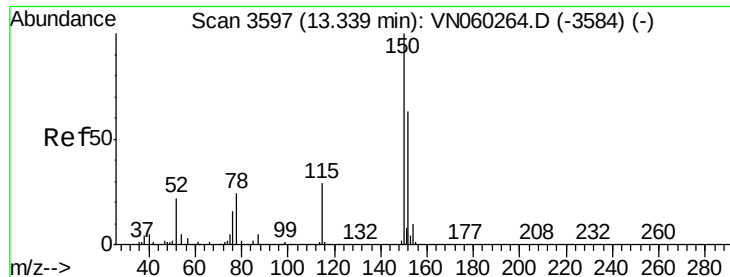
91 220.5 109.5 328.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

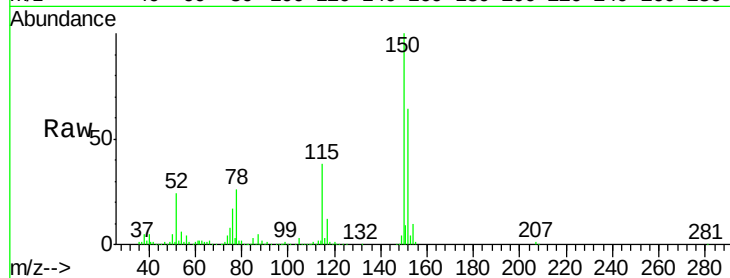




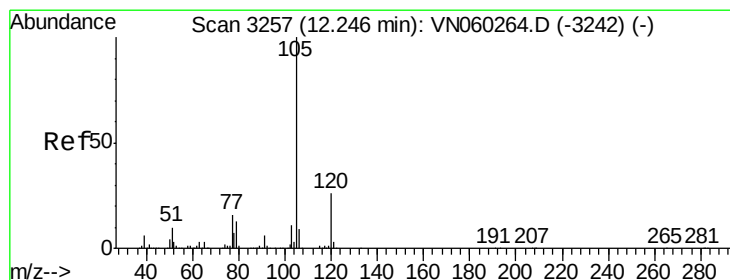
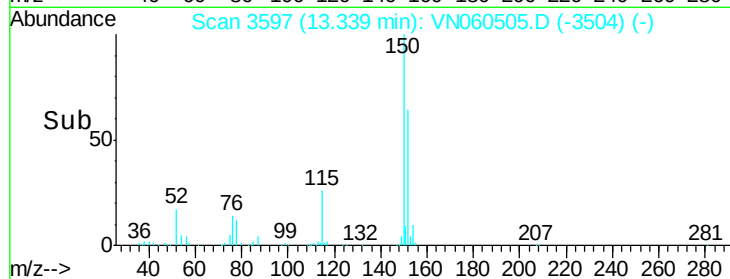
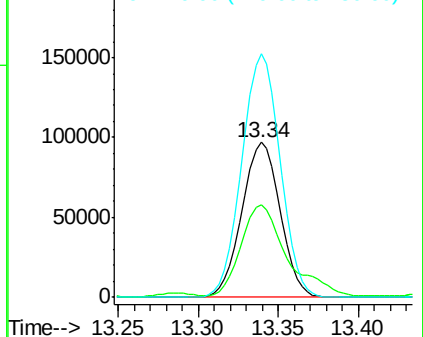
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-SA

Tot Ion	Ratio	Lower	Upper
152	100		
115	72.1	30.0	90.0
150	157.4	0.0	349.6

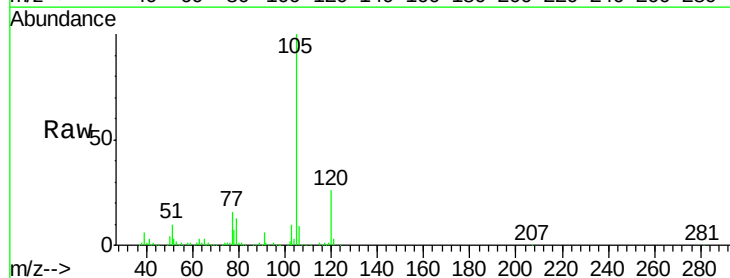


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

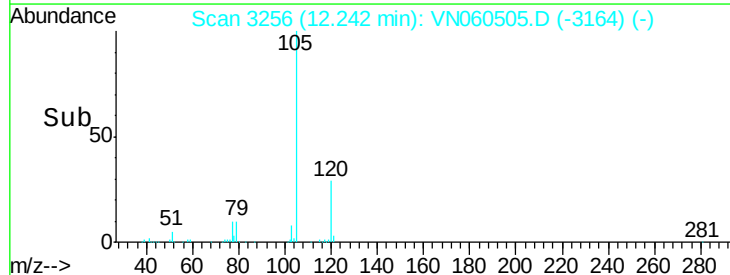
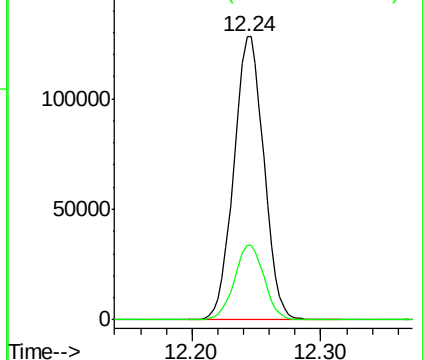


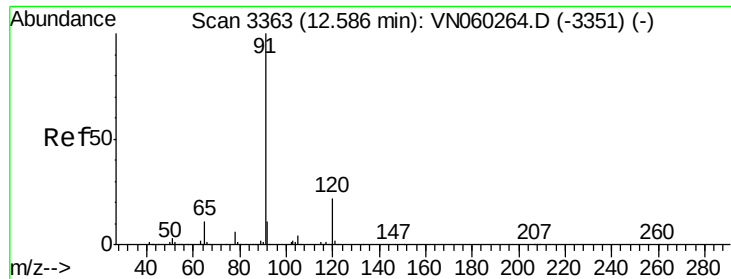
#73
 Isopropylbenzene
 Concen: 17.702 ug/l
 RT: 12.24 min Scan# 3256
 Delta R.T. -0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.0	38.9



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 15.100 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampled :

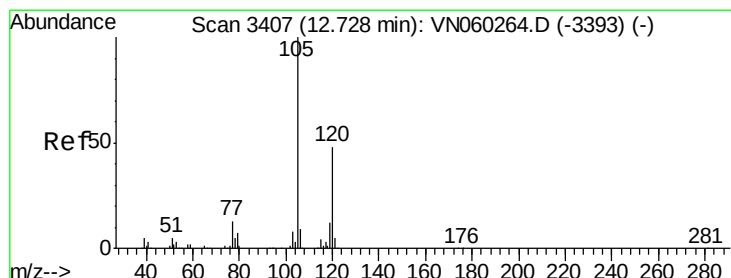
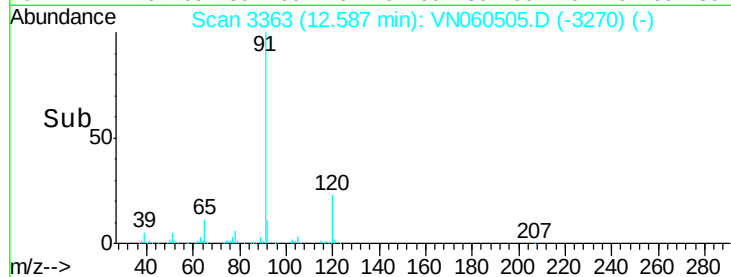
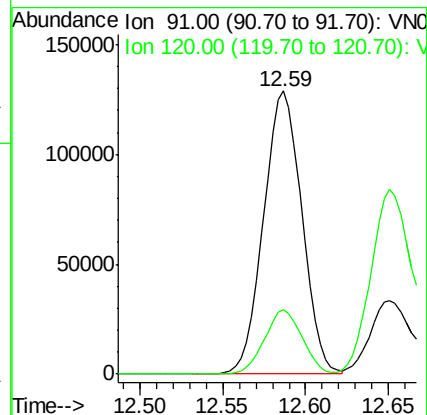
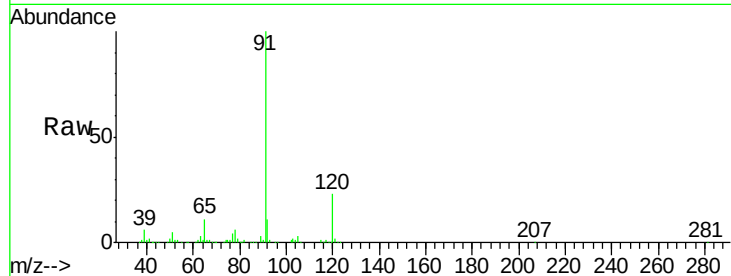
TP-14-SA

Tot Ion: 91 Resp: 207448

Ion Ratio Lower Upper

91 100

120 22.3 11.3 33.9



#80

1,3,5-Trimethylbenzene

Concen: 29.847 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060505.D

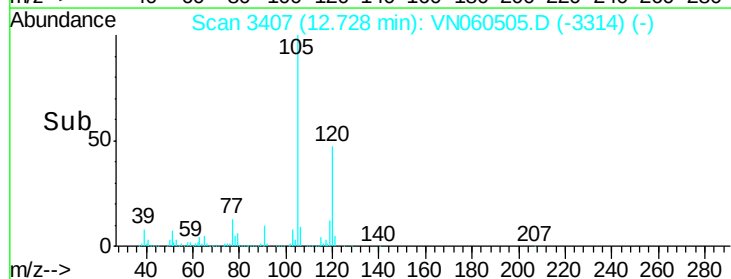
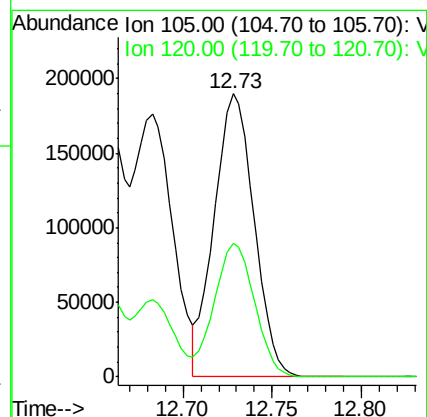
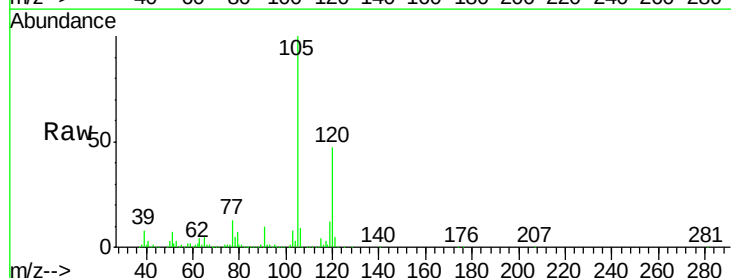
Acq: 13 Mar 2020 16:12

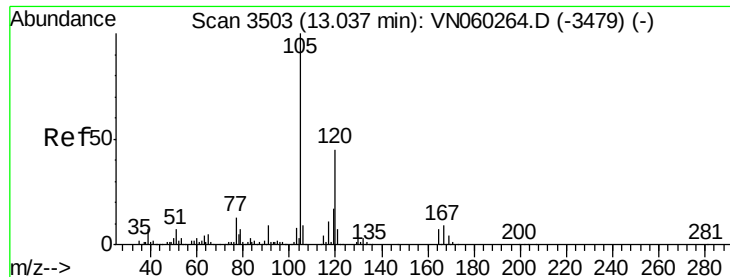
Tgt Ion: 105 Resp: 294519

Ion Ratio Lower Upper

105 100

120 47.4 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 82.537 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampleId :

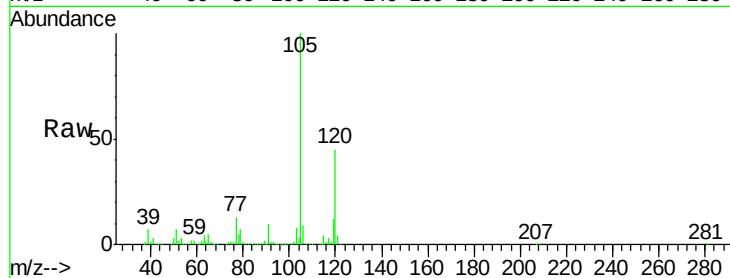
TP-14-SA

Tot Ion:105 Resp: 822051

Ion Ratio Lower Upper

105 100

120 44.6 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

200000

100000

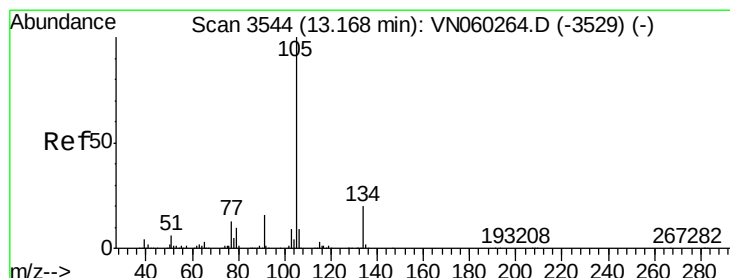
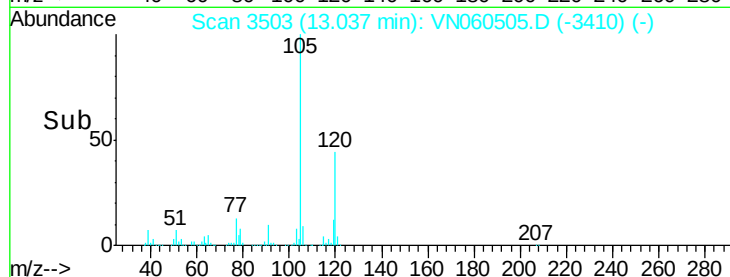
0

13.04

13.00

13.10

Time-->



#85

sec-Butylbenzene

Concen: 3.190 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060505.D

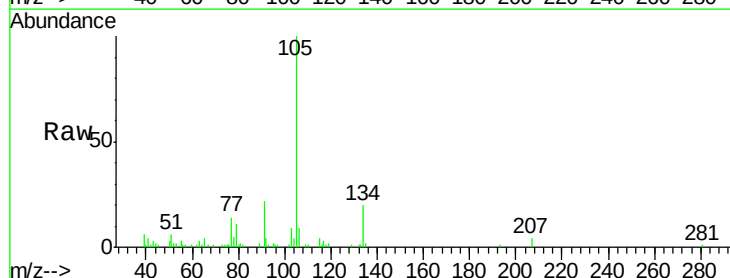
Acq: 13 Mar 2020 16:12

Tgt Ion:105 Resp: 36496

Ion Ratio Lower Upper

105 100

134 29.9 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

25000

20000

15000

10000

5000

0

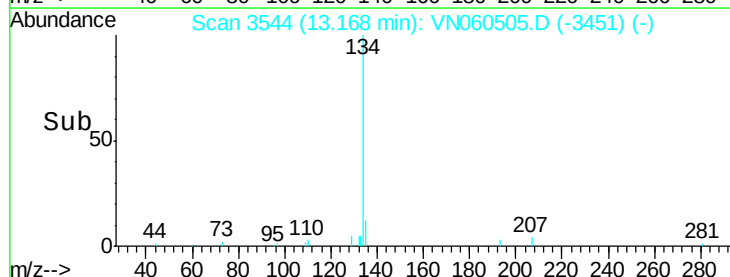
13.17

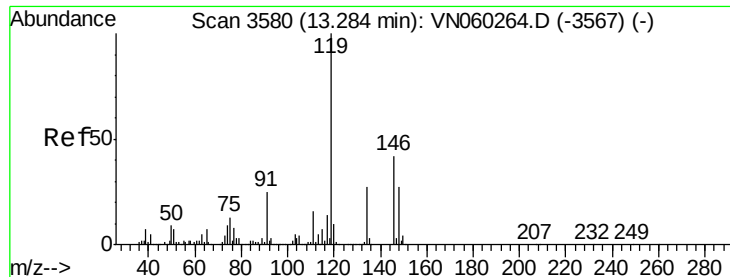
13.10

13.15

13.20

Time-->

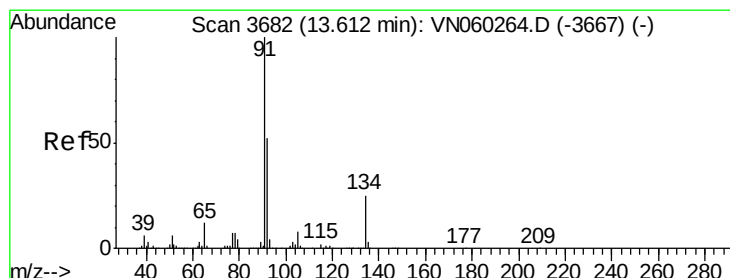
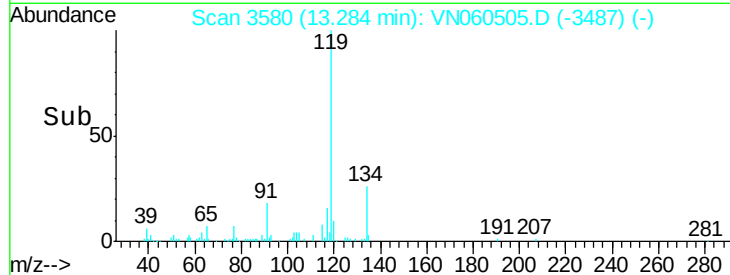
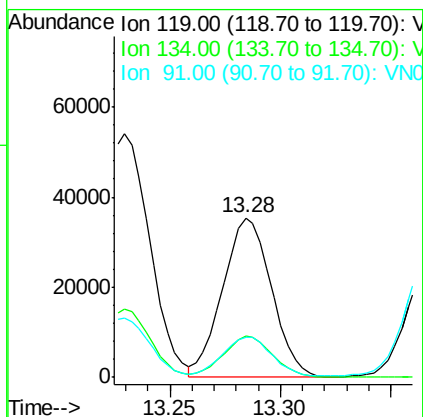
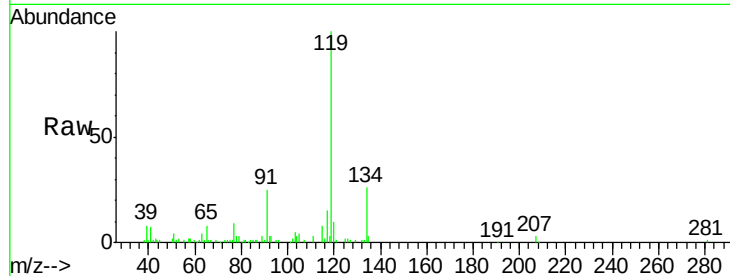




#86
 p-Isopropyltoluene
 Concen: 5.082 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

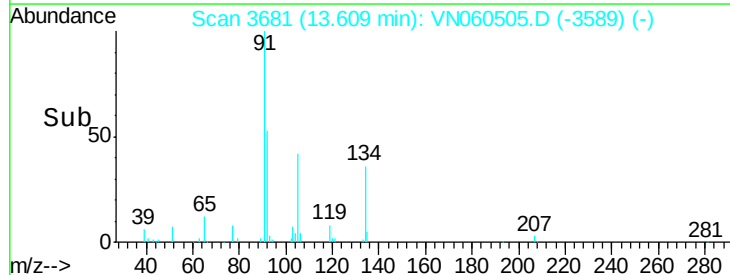
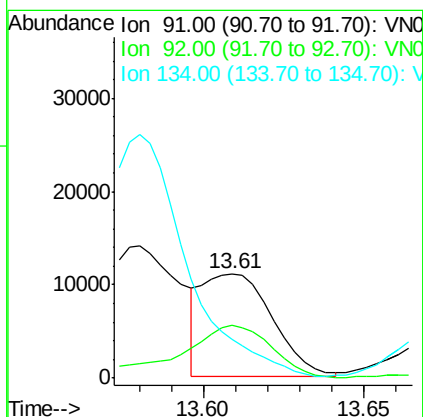
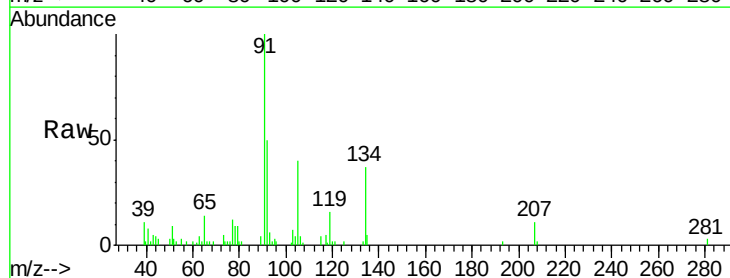
Instrument :
 MSVOA_N
 ClientSampled :
 TP-14-SA

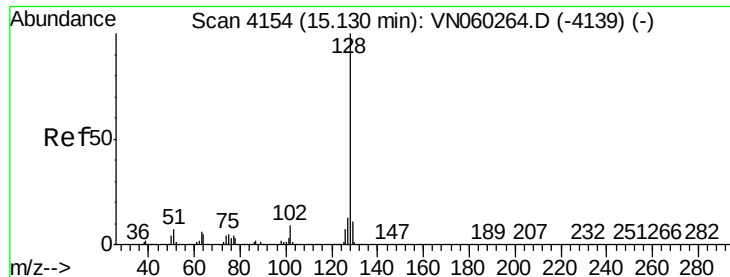
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	24.2	12.2	36.6



#89
 n-Butylbenzene
 Concen: 1.713 ug/l m
 RT: 13.61 min Scan# 3681
 Delta R.T. -0.00 min
 Lab File: VN060505.D
 Acq: 13 Mar 2020 16:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	287.7	12.7	38.1#





#95

Naphthalene

Concen: 15.003 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060505.D

Acq: 13 Mar 2020 16:12

Instrument :

MSVOA_N

ClientSampleId :

TP-14-SA

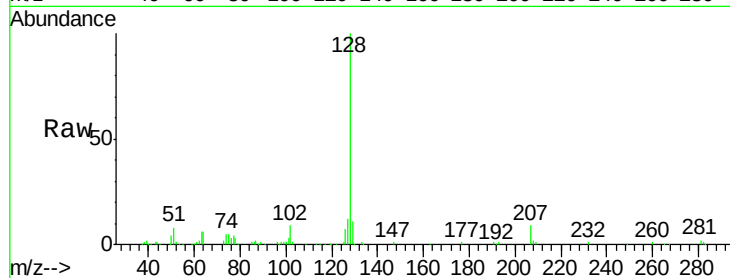
Tot Ion:128 Resp: 143142

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 11.5 8.6 13.0



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

