

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071620\
 Data File : VN062547.D
 Acq On : 16 Jul 2020 14:58
 Operator : JC/MD
 Sample : L3320-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

Quant Time: Jul 17 08:12:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	36663	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	192374	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	172565	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	94929	30.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.47%
60) 4-Bromofluorobenzene	12.38	95	77300	26.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.73%
63) Toluene-d8	10.06	98	243368	29.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.50%

Target Compounds

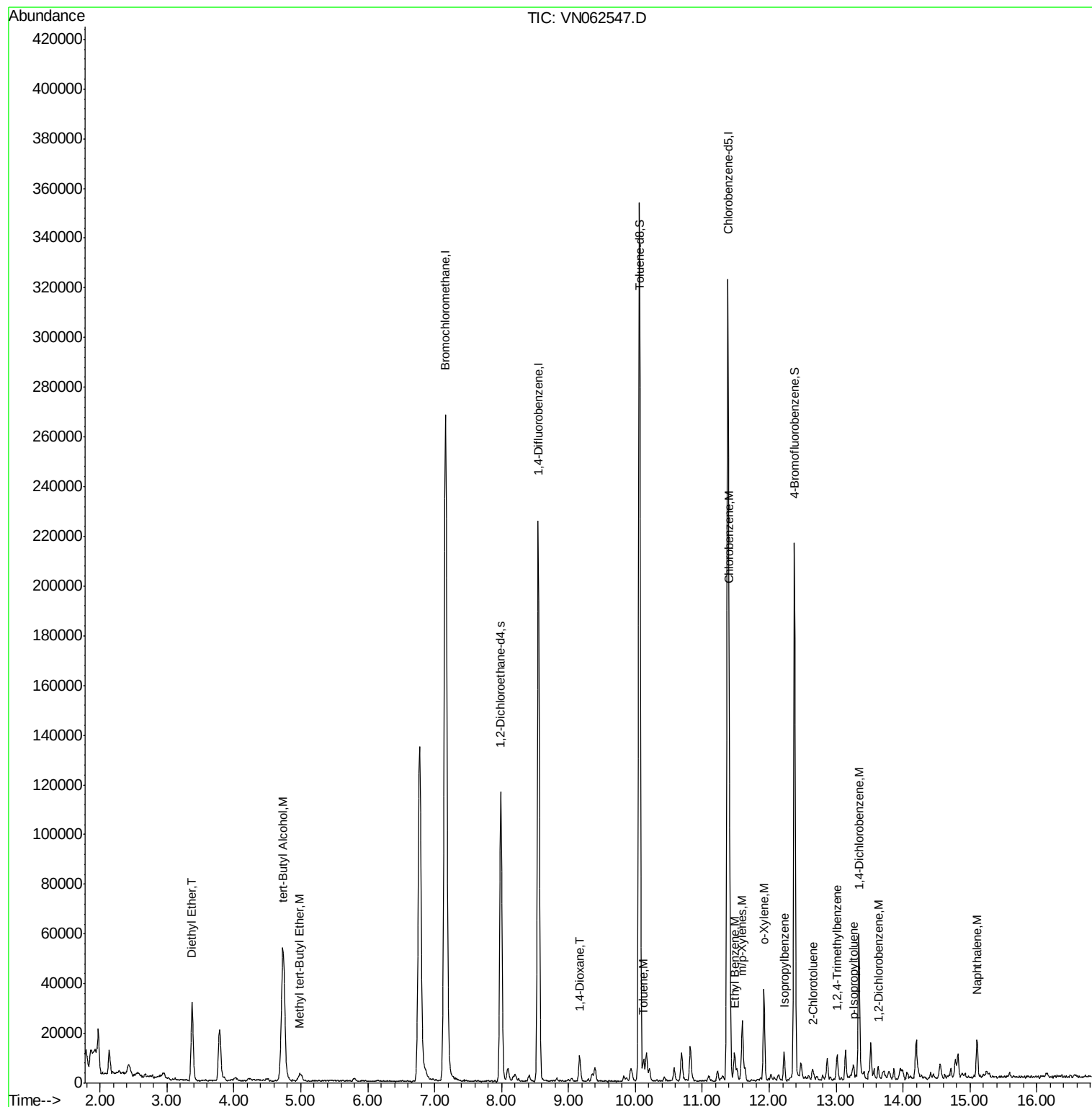
	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	3.38	74	14504	9.425	ug/l	89
23) tert-Butyl Alcohol	4.73	59	101763	230.910	ug/l #	100
24) Methyl tert-Butyl Ether	4.98	73	5523m	0.710	ug/l	
45) 1,4-Dioxane	9.17	88	7324	183.412	ug/l	98
62) Toluene	10.12	91	5243	0.536	ug/l	96
64) Chlorobenzene	11.41	112	49693	8.638	ug/l	96
66) Ethyl Benzene	11.48	91	5823	0.537	ug/l	98
67) m/p-Xylenes	11.60	106	7488	1.903	ug/l	95
68) o-Xylene	11.92	106	9445	2.501	ug/l	99
70) Isopropylbenzene	12.22	105	6726	0.664	ug/l	99
75) 2-Chlorotoluene	12.65	91	2887	0.398	ug/l	65
80) 1,2,4-Trimethylbenzene	13.01	105	5224	0.615	ug/l	91
82) p-Isopropyltoluene	13.26	119	2328	0.275	ug/l	89
84) 1,4-Dichlorobenzene	13.34	146	22477	5.587	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	1840	0.469	ug/l	94
91) Naphthalene	15.10	128	13768	2.602	ug/l	99

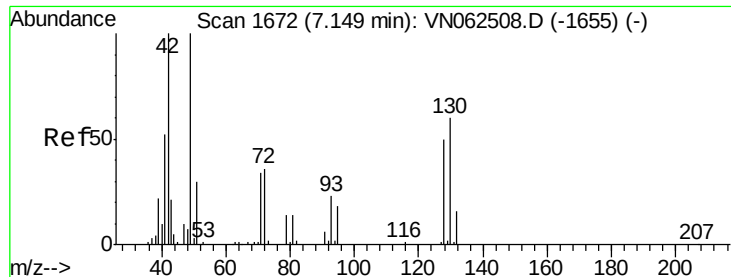
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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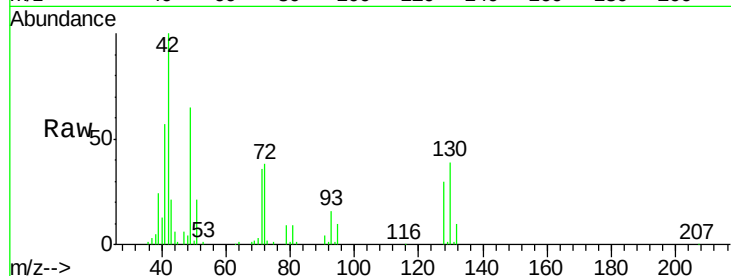




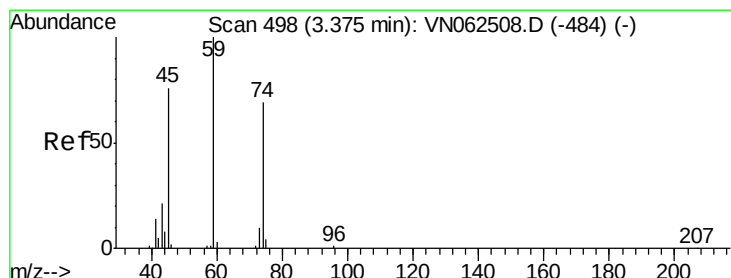
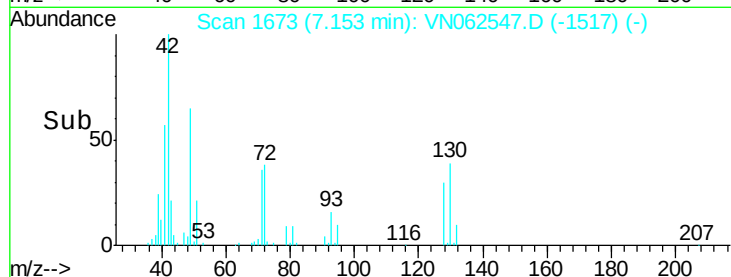
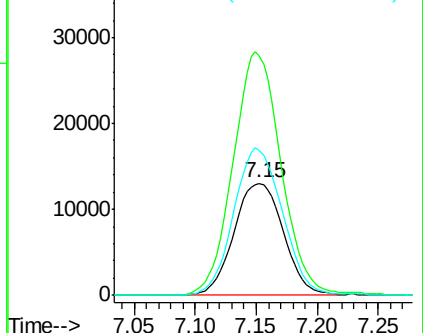
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.15 min Scan# 1673
 Delta R.T. 0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

Tot Ion:128 Resp: 36663
 Ion Ratio Lower Upper
 128 100
 49 210.5 0.0 525.0
 130 129.5 0.0 319.8

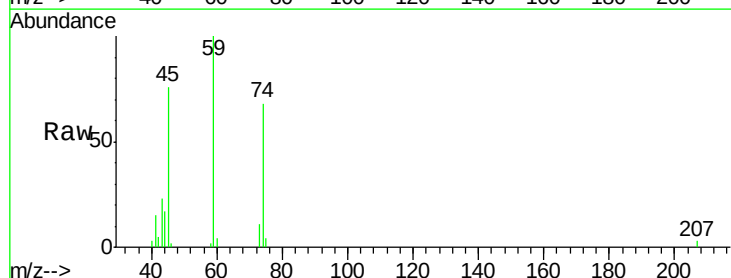


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

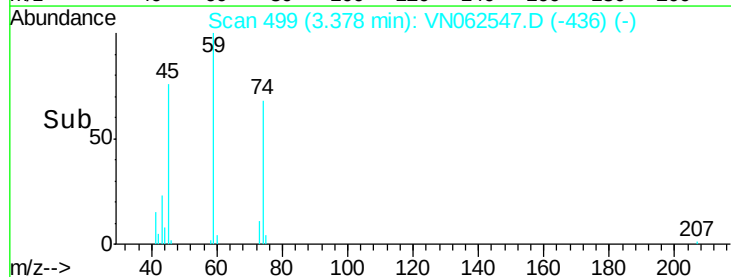
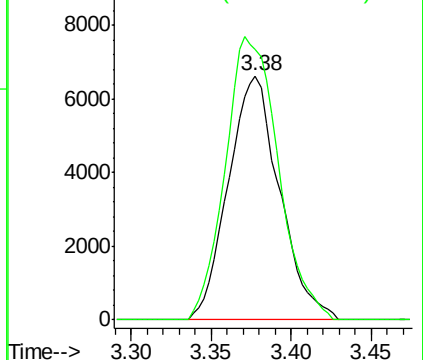


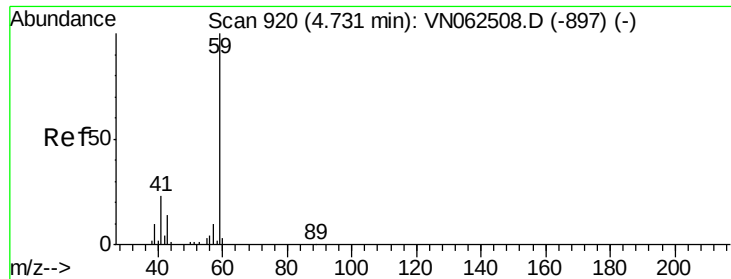
#8
 Diethyl Ether
 Concen: 9.425 ug/l
 RT: 3.38 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion: 74 Resp: 14504
 Ion Ratio Lower Upper
 74 100
 45 120.3 21.8 196.6



Abundance Ion 74.00 (73.70 to 74.70): VN
 Ion 45.00 (44.70 to 45.70): VN



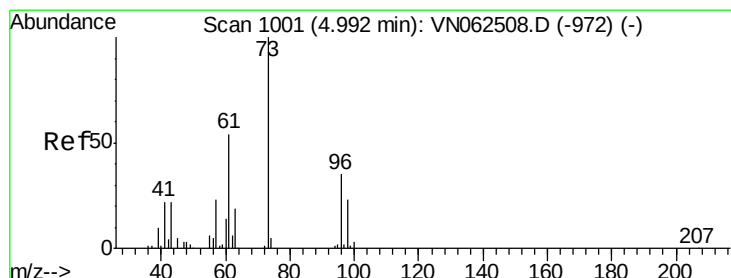
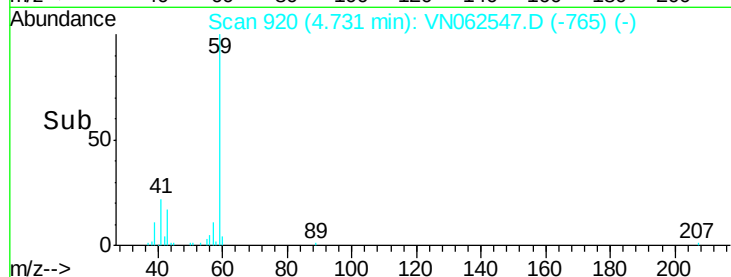
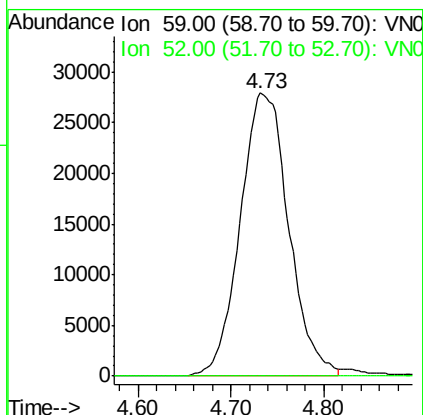
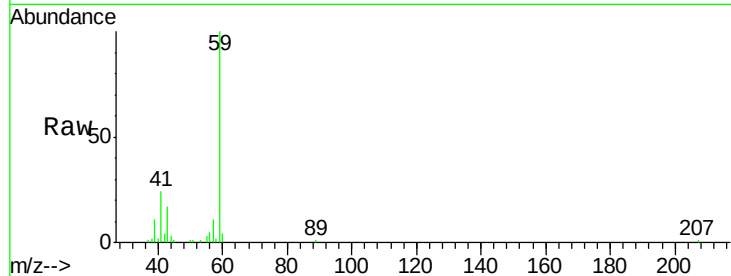


#23

tert-Butyl Alcohol
 Concen: 230.910 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Instrument :
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 200715090-01-VOC

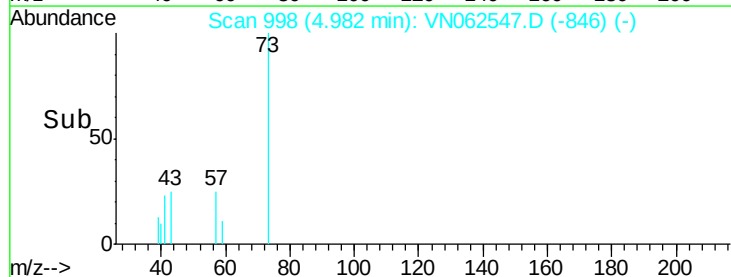
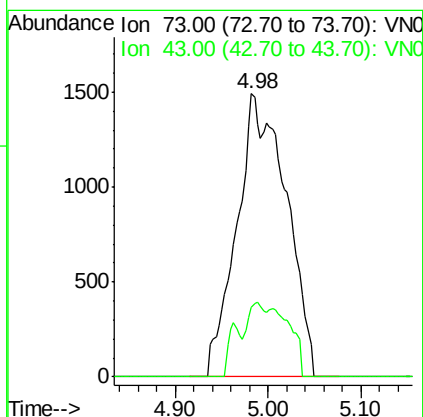
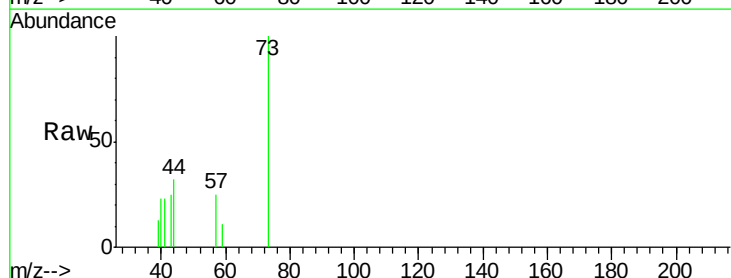
Tot Ion: 59 Resp: 101763
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

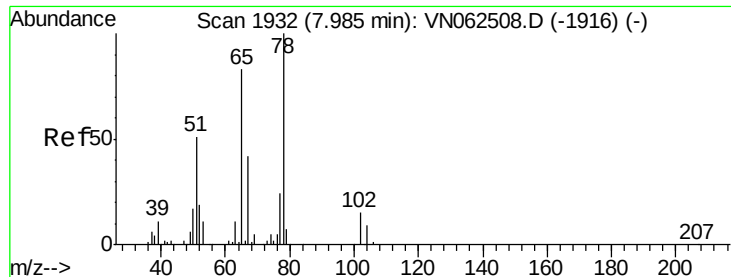


#24

Methyl tert-Butyl Ether
 Concen: 0.710 ug/l m
 RT: 4.98 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion: 73 Resp: 5523
 Ion Ratio Lower Upper
 73 100
 43 4.8 16.9 25.3#

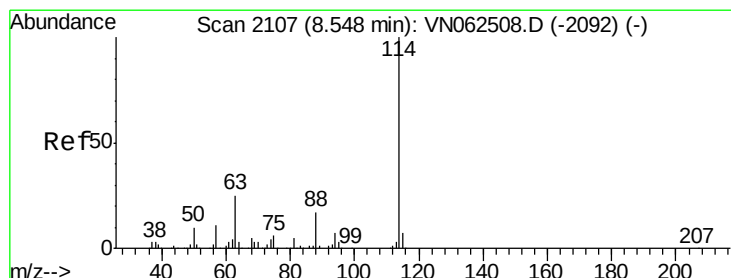
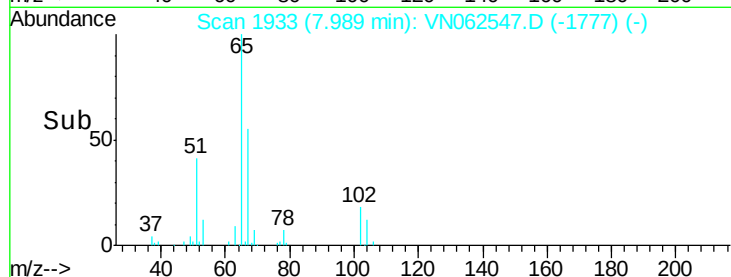
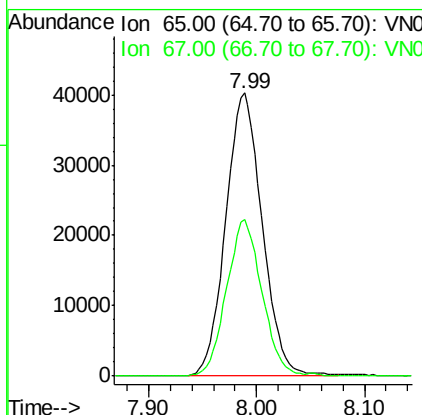
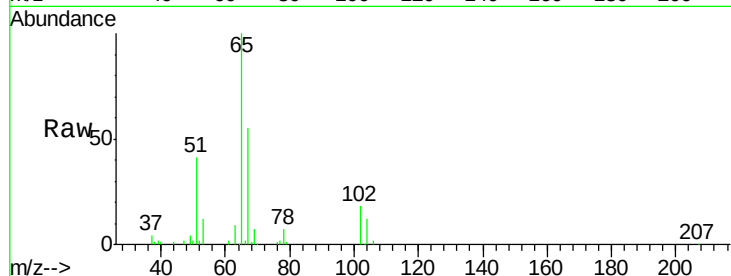




#27
 1,2-Dichloroethane-d4
 Concen: 30.140 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

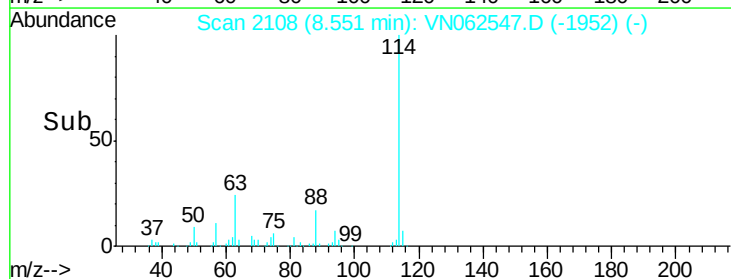
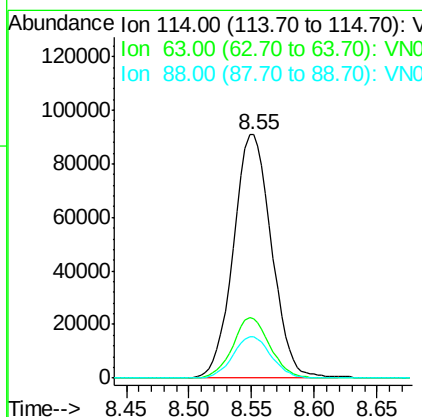
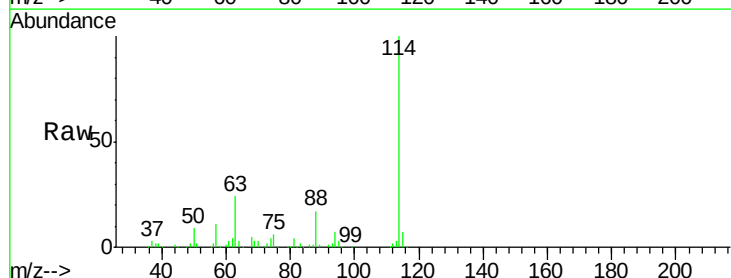
Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

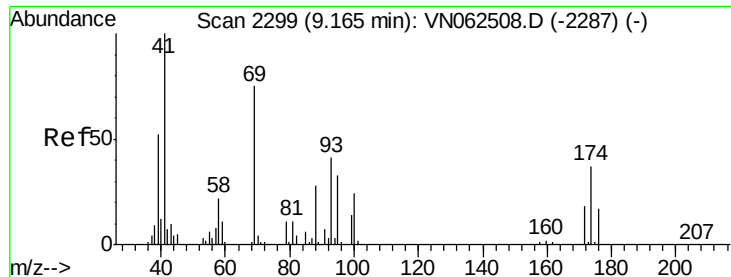
Tot Ion: 65 Resp: 94929
 Ion Ratio Lower Upper
 65 100
 67 53.4 41.7 62.5



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion: 114 Resp: 192374
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.4 29.0
 88 17.2 13.5 20.3

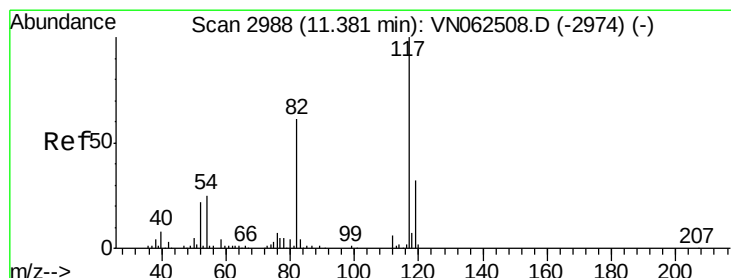
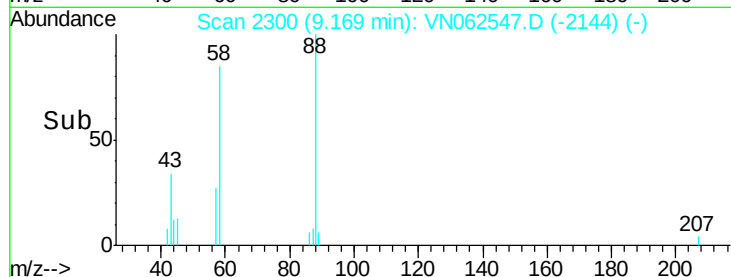
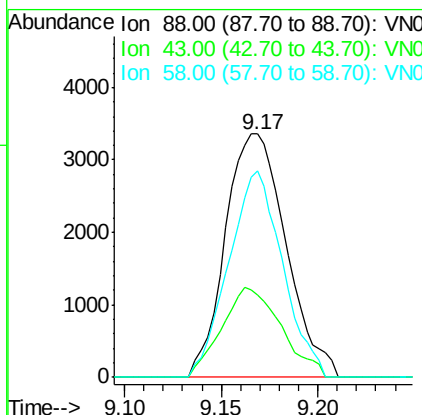
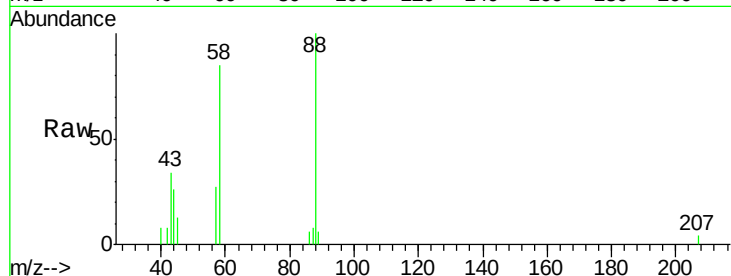




#45
 1,4-Dioxane
 Concen: 183.412 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. 0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

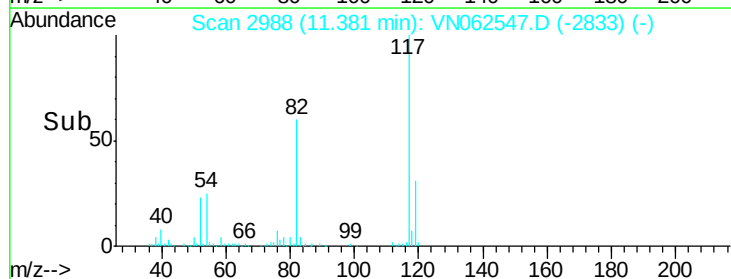
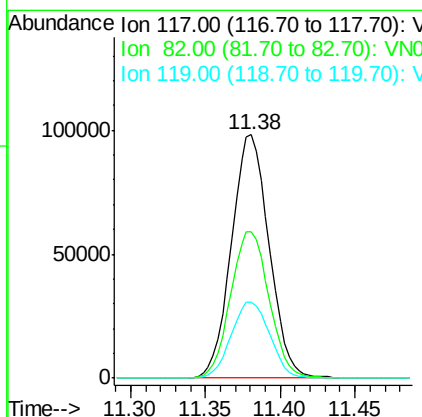
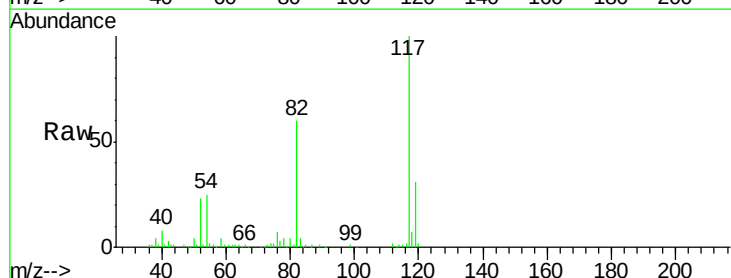
Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

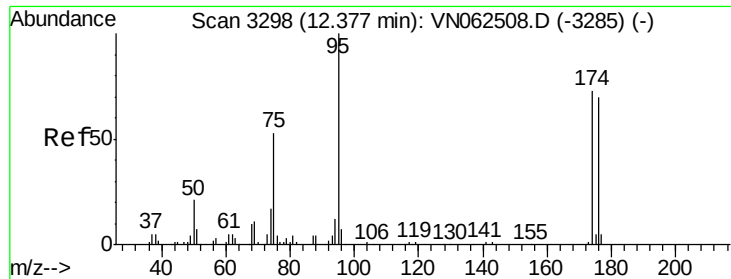
Tot Ion: 88 Resp: 7324
 Ion Ratio Lower Upper
 88 100
 43 36.2 29.2 43.8
 58 75.2 62.2 93.4



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion: 117 Resp: 172565
 Ion Ratio Lower Upper
 117 100
 82 61.4 49.0 73.6
 119 32.0 25.6 38.4

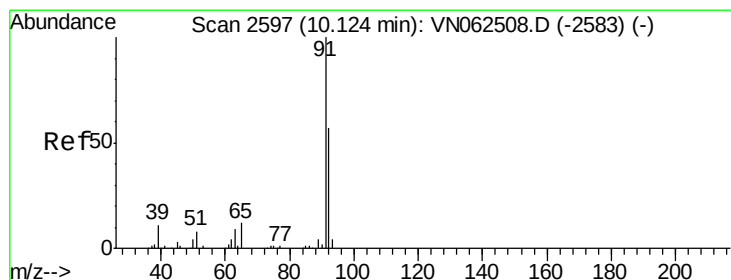
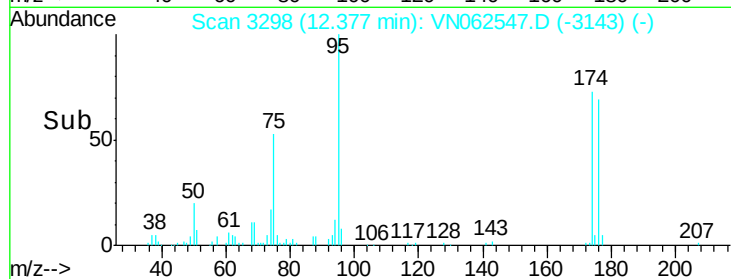
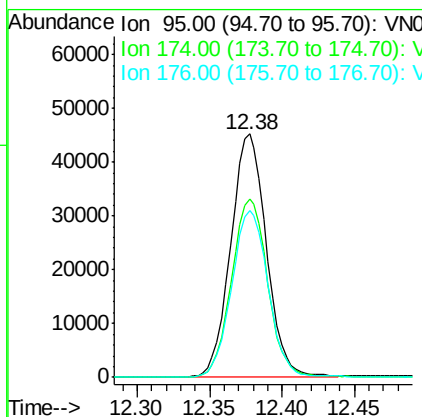
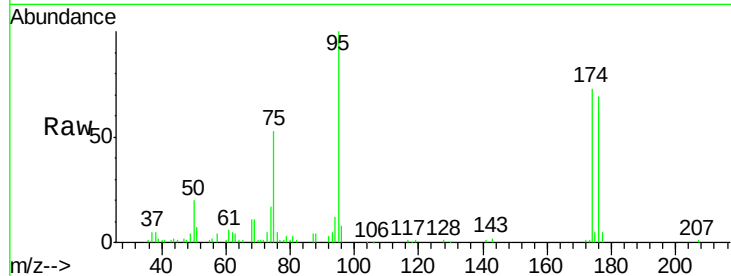




#60
 4-Bromofluorobenzene
 Concen: 26.323 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

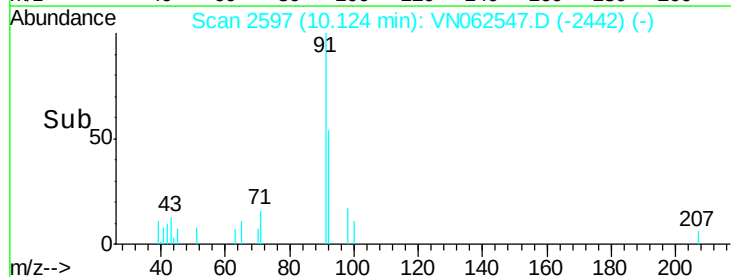
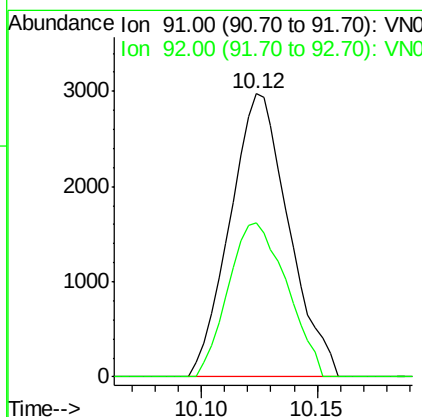
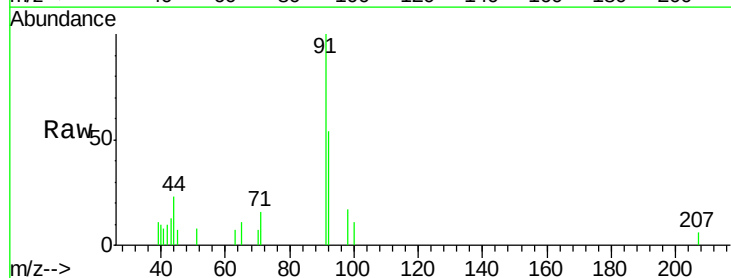
Instrument :
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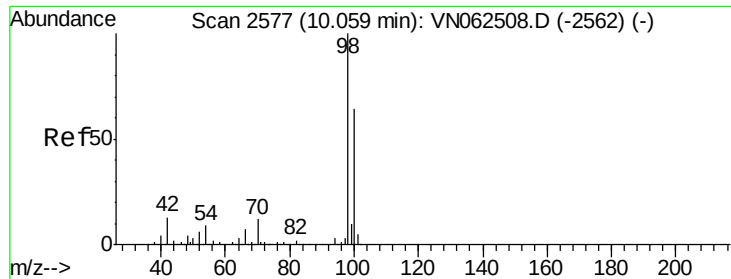
Tot Ion: 95 Resp: 77300
 Ion Ratio Lower Upper
 95 100
 174 74.1 57.5 86.3
 176 69.9 56.3 84.5



#62
 Toluene
 Concen: 0.536 ug/l
 RT: 10.12 min Scan# 2597
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion: 91 Resp: 5243
 Ion Ratio Lower Upper
 91 100
 92 54.2 45.8 68.6

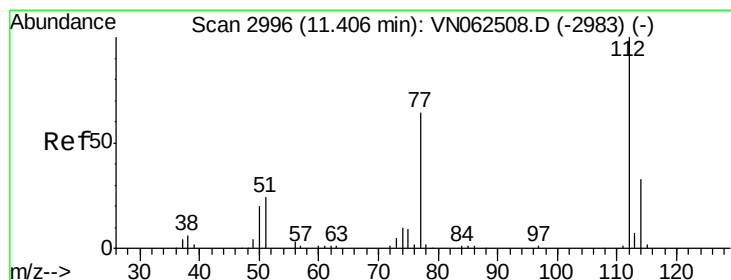
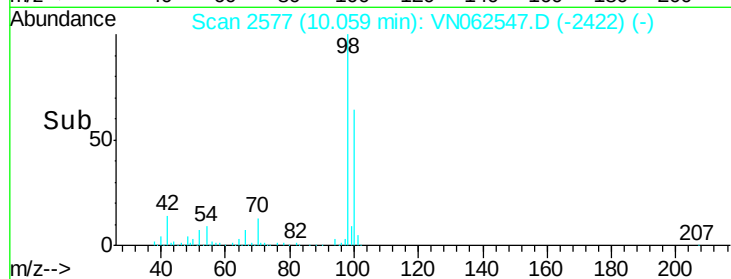
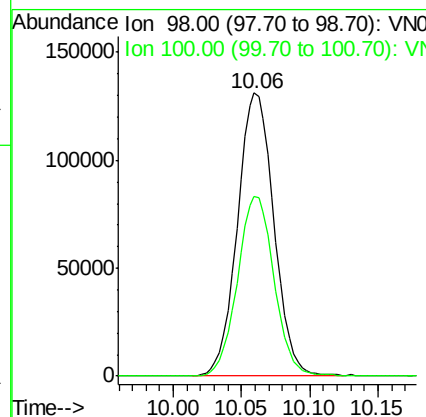
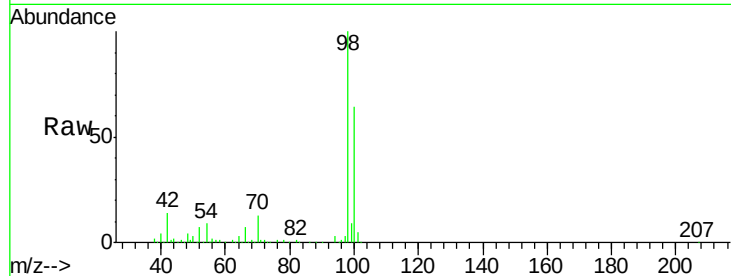




#63
Toluene-d8
Concen: 29.846 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062547.D
Acq: 16 Jul 2020 14:58

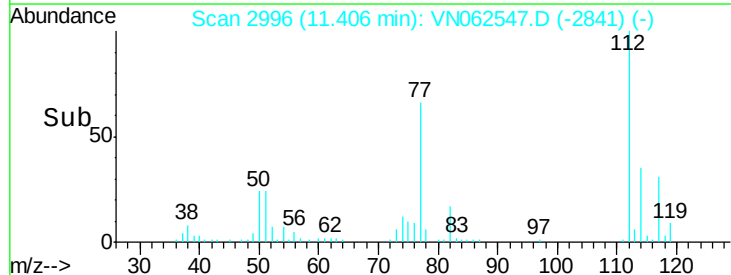
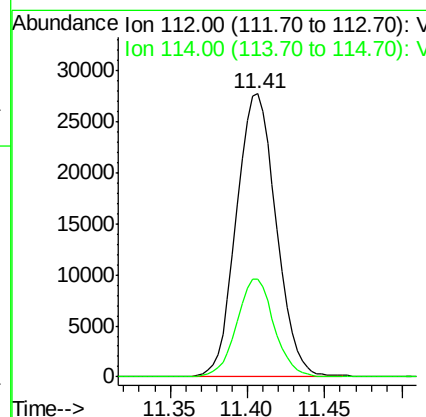
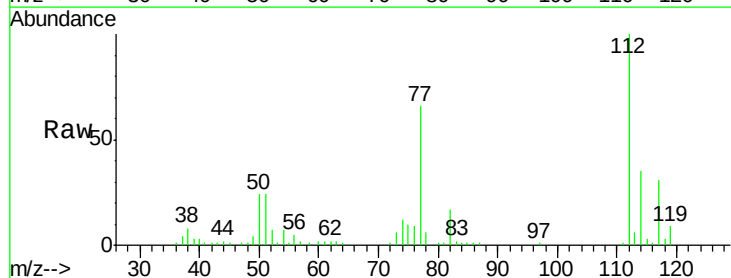
Instrument :
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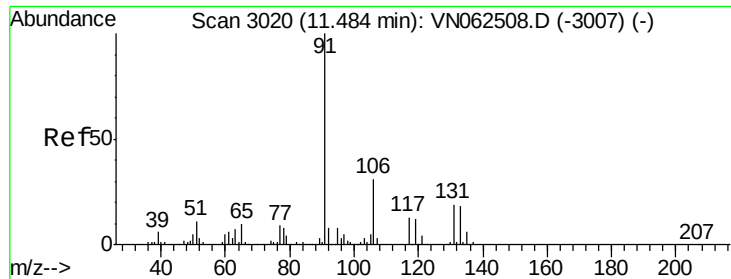
Tot Ion: 98 Resp: 243368
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#64
Chlorobenzene
Concen: 8.638 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN062547.D
Acq: 16 Jul 2020 14:58

Tgt Ion: 112 Resp: 49693
Ion Ratio Lower Upper
112 100
114 34.7 26.0 39.0





#66

Ethyl Benzene

Concen: 0.537 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. -0.00 min

Lab File: VN062547.D

Acq: 16 Jul 2020 14:58

Instrument :

MSVOA_N

ClientSampleId :

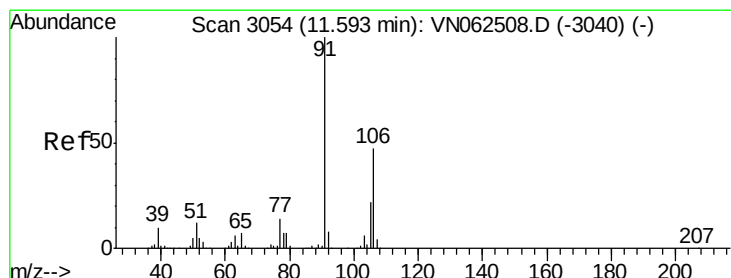
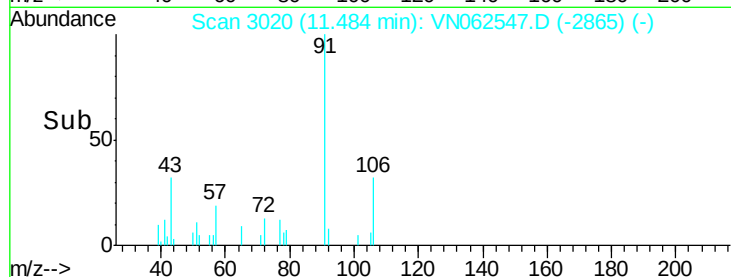
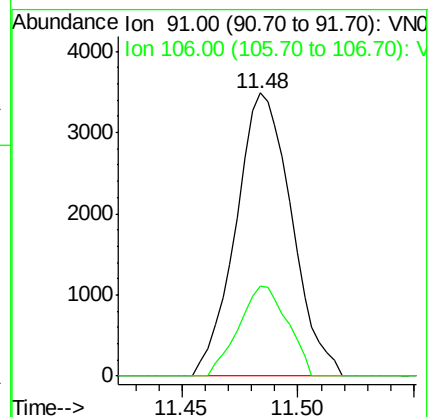
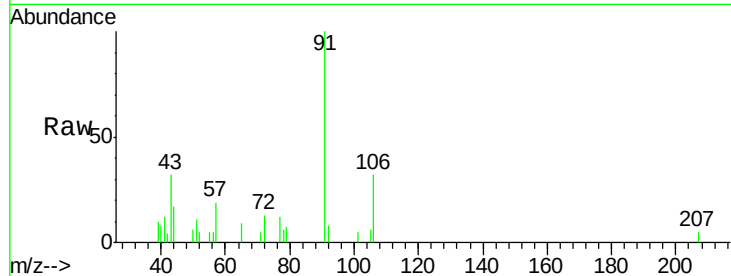
200715090-01-VOC

Tot Ion: 91 Resp: 5823

Ion Ratio Lower Upper

91 100

106 32.0 24.6 36.8



#67

m/p-Xylenes

Concen: 1.903 ug/l

RT: 11.60 min Scan# 3056

Delta R.T. 0.01 min

Lab File: VN062547.D

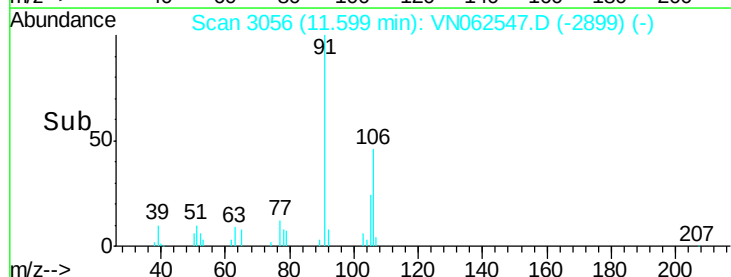
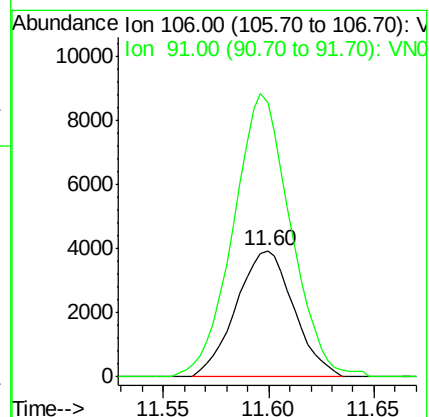
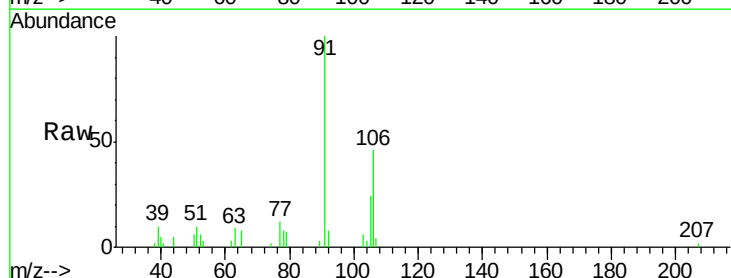
Acq: 16 Jul 2020 14:58

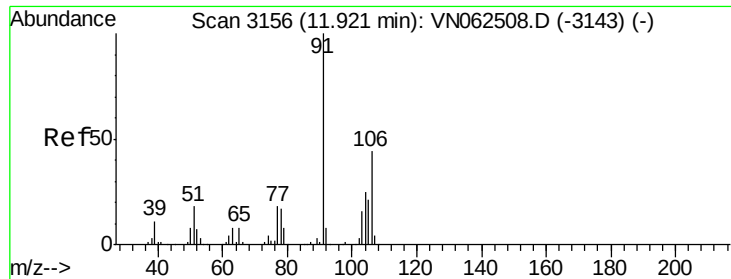
Tgt Ion: 106 Resp: 7488

Ion Ratio Lower Upper

106 100

91 221.8 170.7 256.1

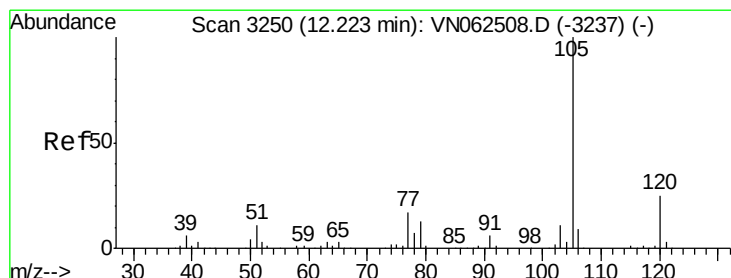
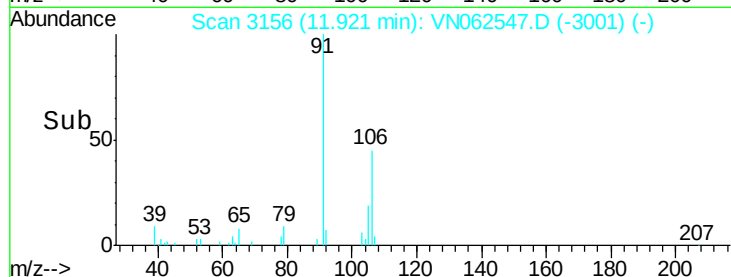
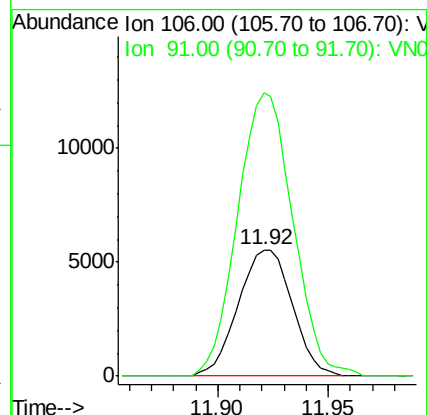
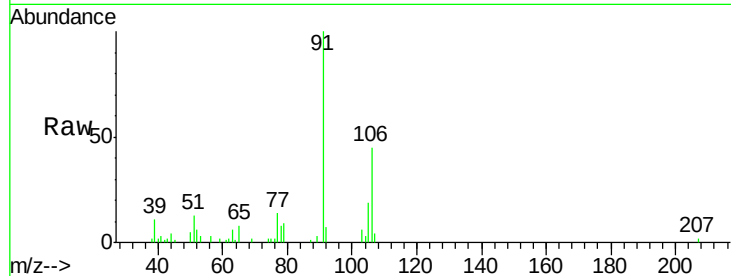




#68
o-Xylene
Concen: 2.501 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN062547.D
Acq: 16 Jul 2020 14:58

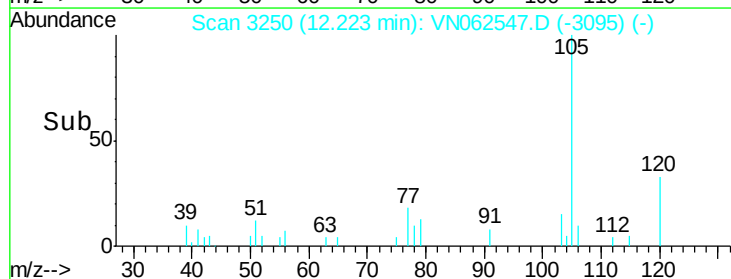
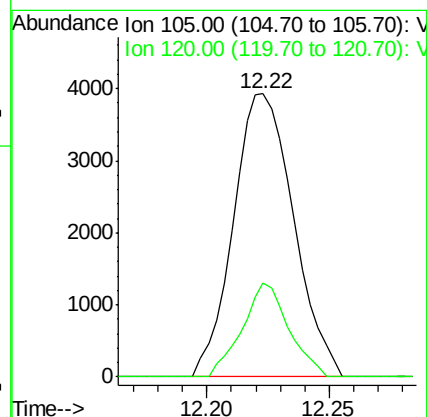
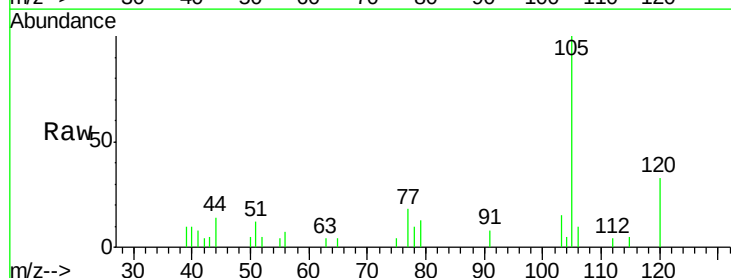
Instrument :
MSVOA_N
ClientSampleId :
200715090-01-VOC

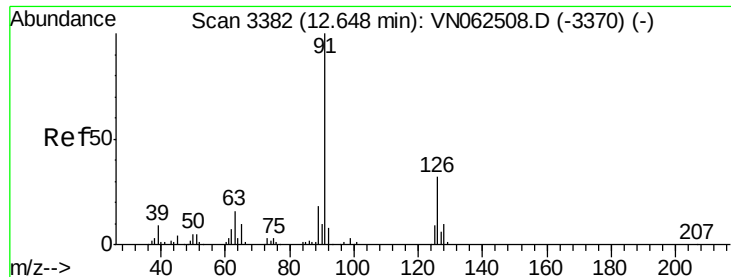
Tot Ion:106 Resp: 9445
Ion Ratio Lower Upper
106 100
91 228.8 113.9 341.6



#70
Isopropylbenzene
Concen: 0.664 ug/l
RT: 12.22 min Scan# 3250
Delta R.T. -0.00 min
Lab File: VN062547.D
Acq: 16 Jul 2020 14:58

Tgt Ion:105 Resp: 6726
Ion Ratio Lower Upper
105 100
120 25.5 17.6 32.8





#75

2-Chlorotoluene

Concen: 0.398 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. -0.00 min

Lab File: VN062547.D

Acq: 16 Jul 2020 14:58

Instrument :

MSVOA_N

ClientSampleId :

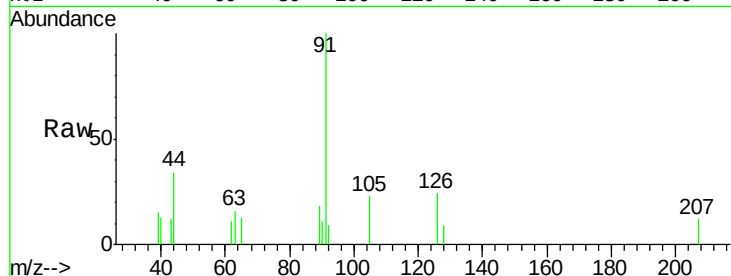
200715090-01-VOC

Tot Ion: 91 Resp: 2887

Ion Ratio Lower Upper

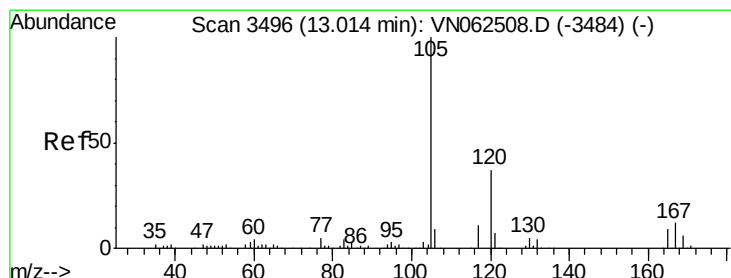
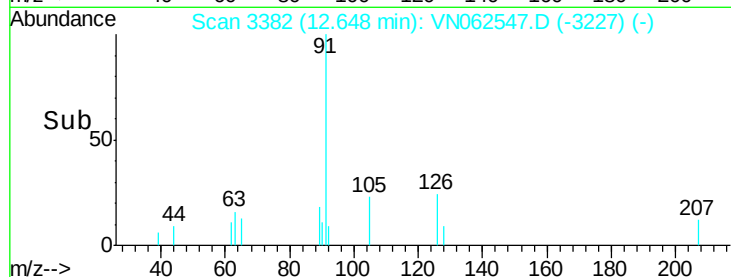
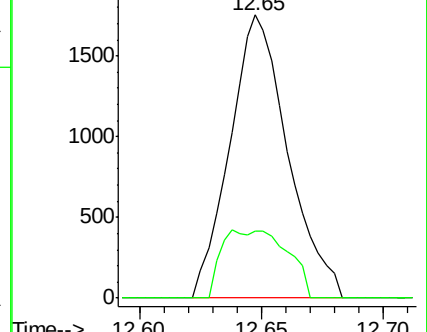
91 100

126 12.1 0.0 62.2



Abundance Ion 91.00 (90.70 to 91.70): VN062508.D (-3370) (-)

Ion 126.00 (125.70 to 126.70): VN062508.D (-3370) (-)



#80

1,2,4-Trimethylbenzene

Concen: 0.615 ug/l

RT: 13.01 min Scan# 3495

Delta R.T. -0.00 min

Lab File: VN062547.D

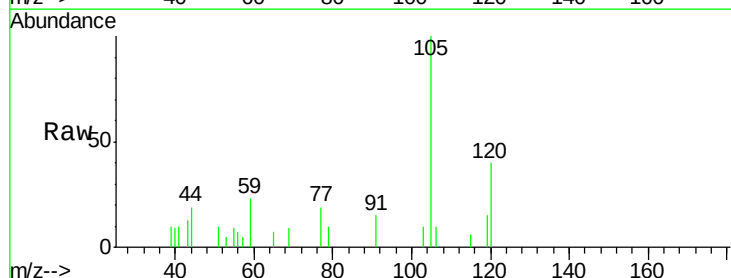
Acq: 16 Jul 2020 14:58

Tgt Ion: 105 Resp: 5224

Ion Ratio Lower Upper

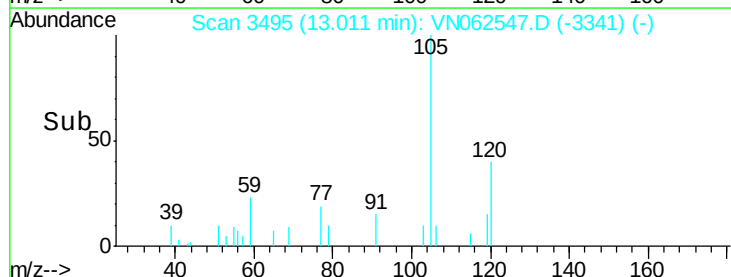
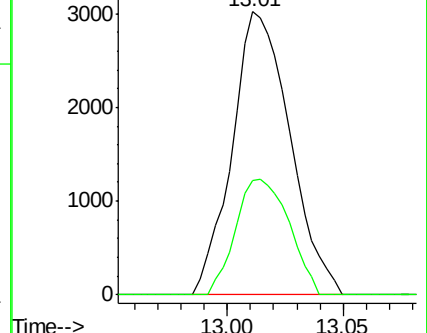
105 100

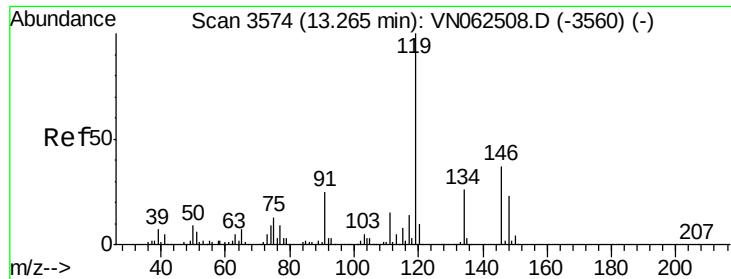
120 37.7 0.0 86.6



Abundance Ion 105.00 (104.70 to 105.70): VN062508.D (-3484) (-)

Ion 120.00 (119.70 to 120.70): VN062508.D (-3484) (-)

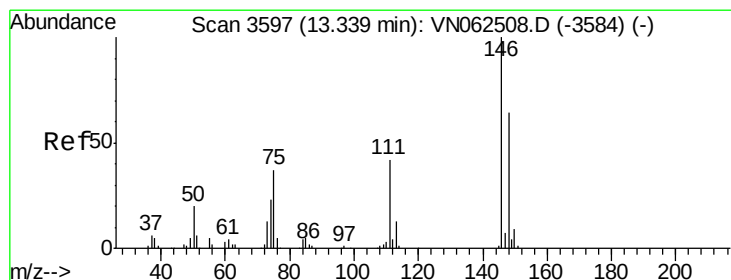
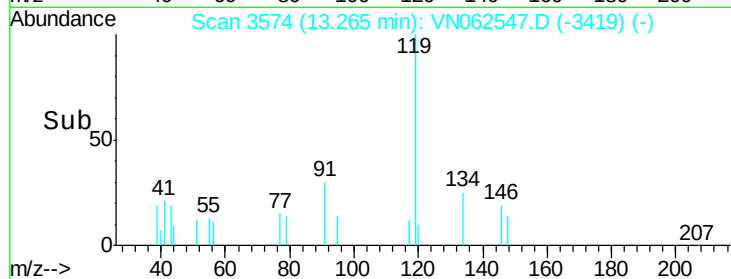
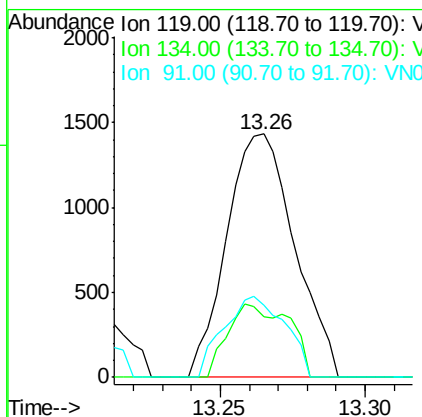
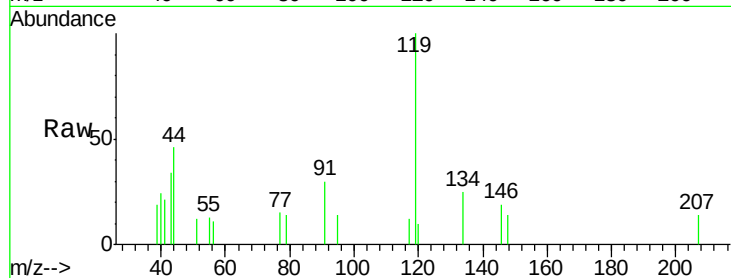




#82
 p-Isopropyltoluene
 Concen: 0.275 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

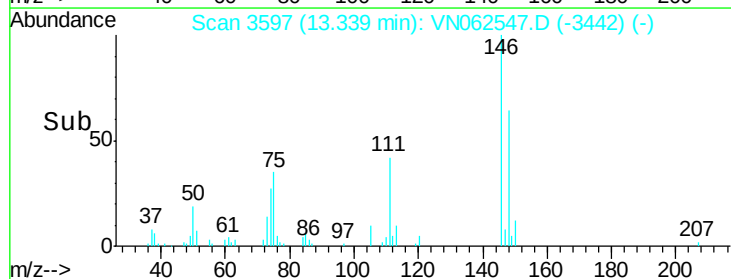
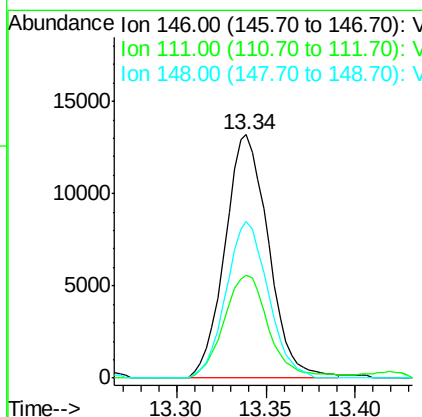
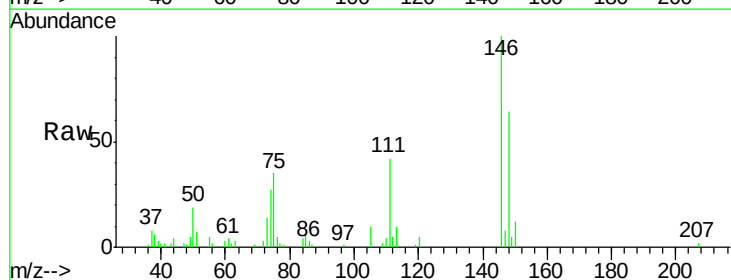
Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

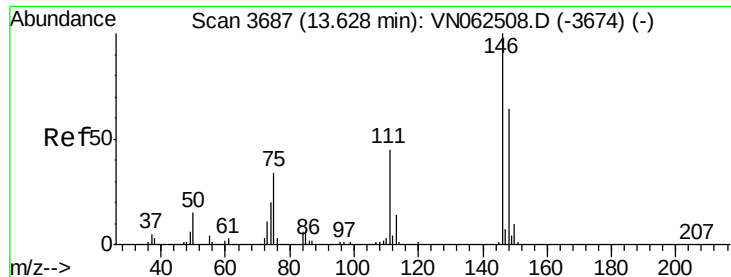
Tot Ion:119 Resp: 2328
 Ion Ratio Lower Upper
 119 100
 134 19.1 0.0 50.8
 91 30.2 0.0 51.2



#84
 1,4-Dichlorobenzene
 Concen: 5.587 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion:146 Resp: 22477
 Ion Ratio Lower Upper
 146 100
 111 43.0 21.4 64.2
 148 62.2 32.4 97.2

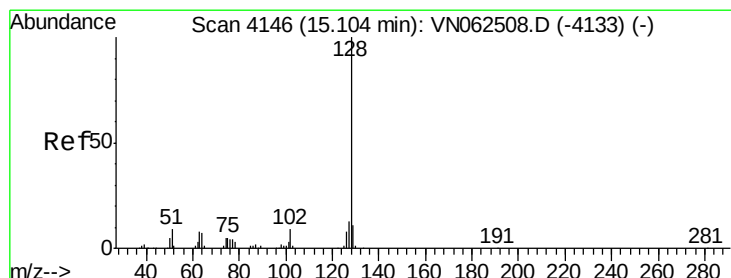
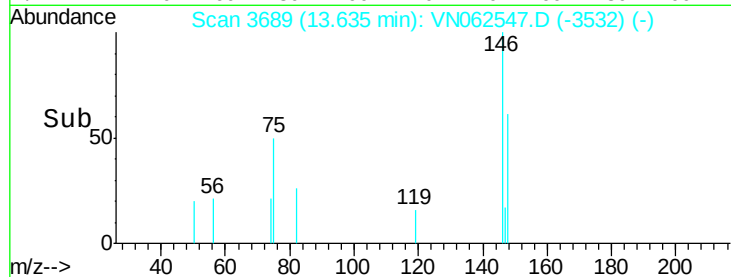
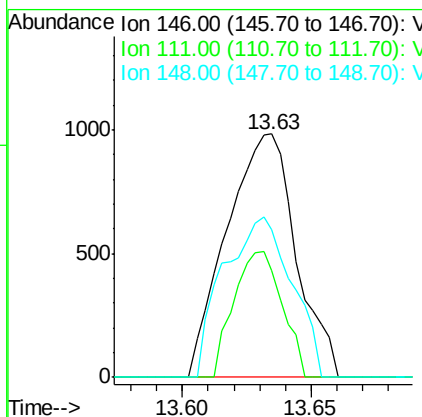
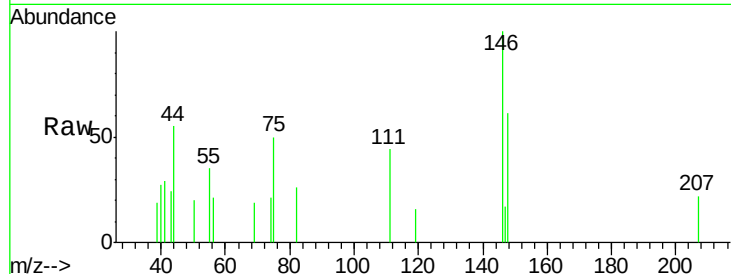




#87
 1,2-Dichlorobenzene
 Concen: 0.469 ug/l
 RT: 13.63 min Scan# 3689
 Delta R.T. 0.01 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Instrument :
 MSVOA_N
 ClientSampleId :
 200715090-01-VOC

Tot Ion:146 Resp: 1840
 Ion Ratio Lower Upper
 146 100
 111 35.9 22.4 67.0
 148 64.7 32.1 96.3



#91
 Naphthalene
 Concen: 2.602 ug/l
 RT: 15.10 min Scan# 4146
 Delta R.T. -0.00 min
 Lab File: VN062547.D
 Acq: 16 Jul 2020 14:58

Tgt Ion:128 Resp: 13768
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.0 15.0
 129 10.8 8.8 13.2

