

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
 Data File : VN057106.D
 Acq On : 6 Aug 2019 16:26
 Operator : JC/SP
 Sample : K4166-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

Manual Integrations
 APPROVED

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 8/9/2019 12:51:38 AM

Quant Time: Aug 07 08:49:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	72233	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	384723	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	304206	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.02	65	144813	30.63	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery	=	102.10%	
60) 4-Bromofluorobenzene	12.40	95	100721	22.09	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery	=	73.63%	
63) Toluene-d8	10.08	98	456471	31.77	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery	=	105.90%	
Target Compounds						
15) Acetone	3.81	58	258459	549.268	ug/l	94
30) 2-Butanone	6.83	43	24074m	10.975	ug/l	
58) 4-Methyl-2-Pentanone	9.98	43	7189	1.761	ug/l	99
62) Toluene	10.15	91	371121	22.431	ug/l	99
91) Naphthalene	15.12	128	4800	8.091	ug/l #	89

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

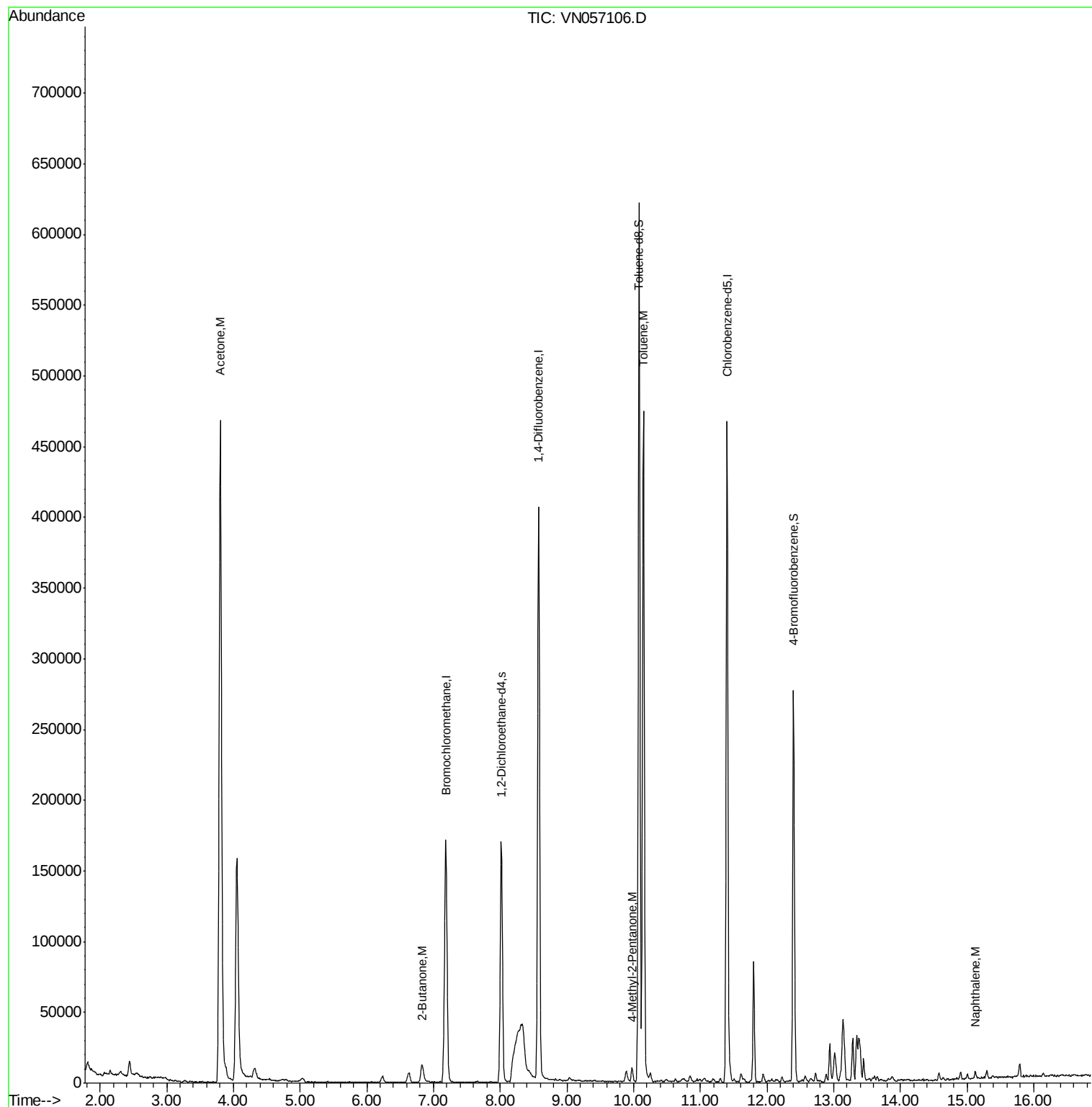
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
Data File : VN057106.D
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Sample : K4166-01
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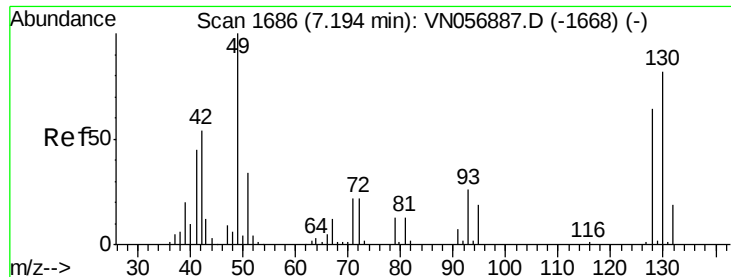
Instrument :
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ClientSampleId :
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Quant Time: Aug 07 08:49:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
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QLast Update : Wed Jul 24 04:19:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VN057106.D

Acq: 6 Aug 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

Tot Ion:128 Resp: 72233

Ion Ratio Lower Upper

128 100

49 142.5 0.0 385.8

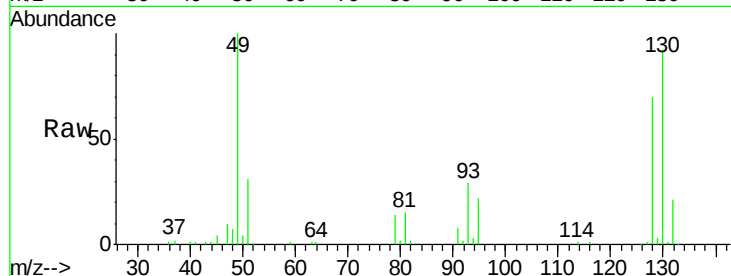
130 128.8 0.0 322.5

Manual Integrations

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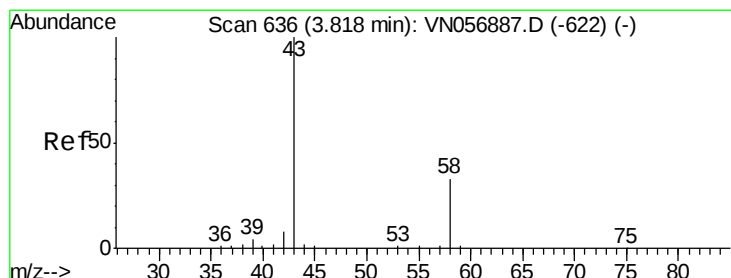
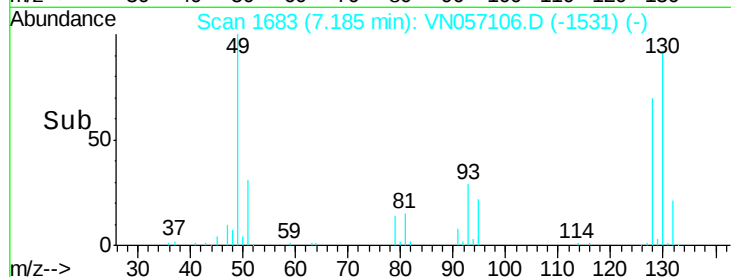
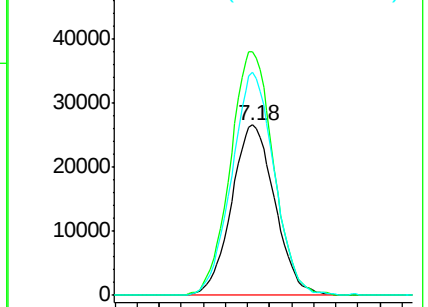
8/9/2019 12:51:38 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 549.268 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN057106.D

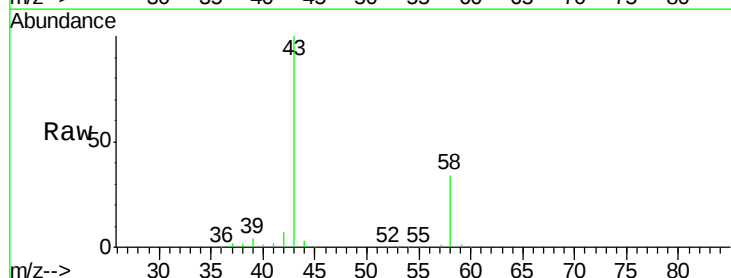
Acq: 6 Aug 2019 16:26

Tgt Ion: 58 Resp: 258459

Ion Ratio Lower Upper

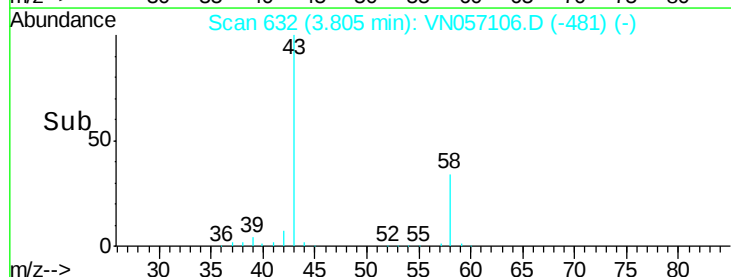
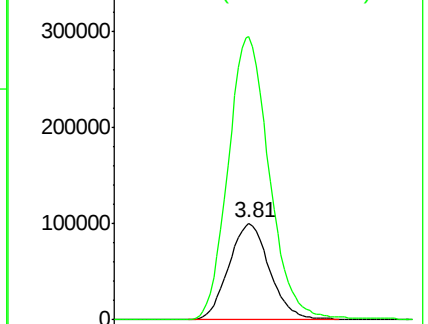
58 100

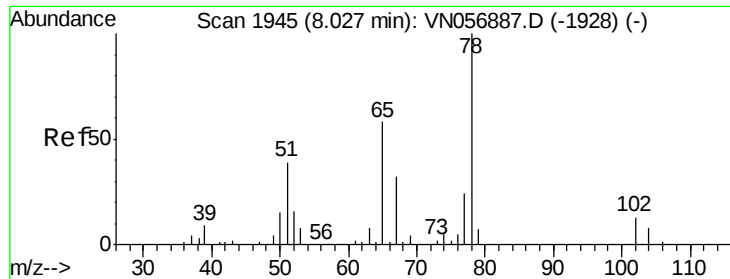
43 291.7 242.4 363.6



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.634 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.01 min

Lab File: VN057106.D

Acq: 6 Aug 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

Tot Ion: 65 Resp: 144813

Ion Ratio Lower Upper

65 100

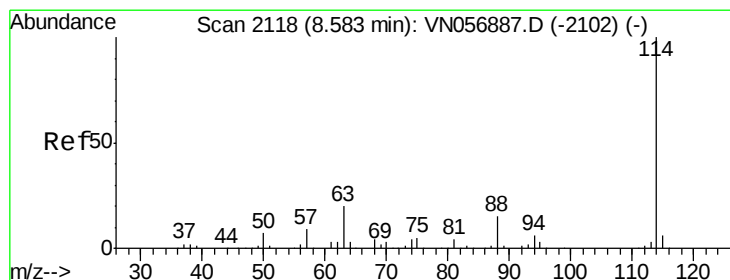
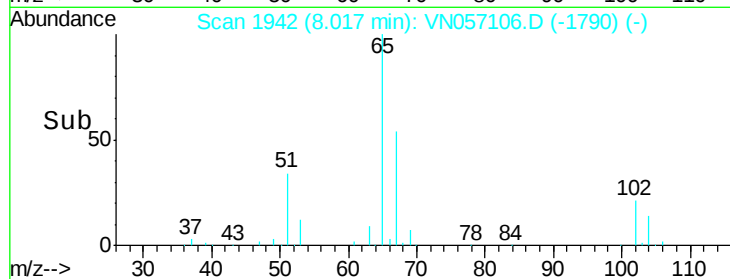
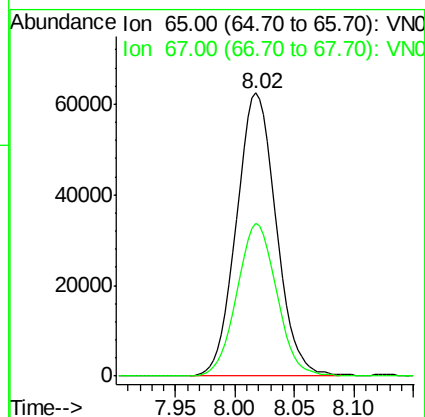
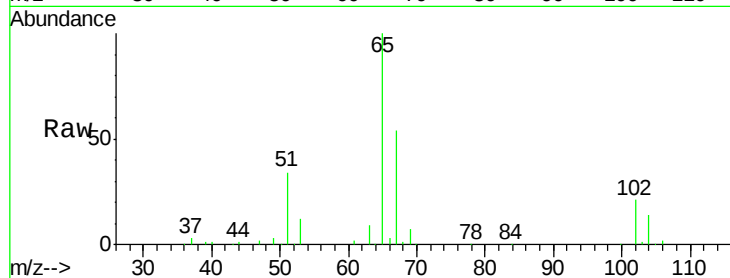
67 54.0 44.6 66.8

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. -0.01 min

Lab File: VN057106.D

Acq: 6 Aug 2019 16:26

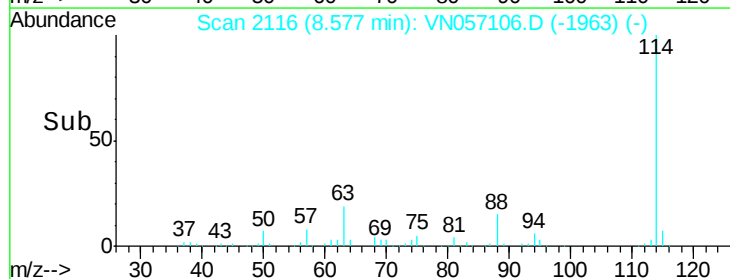
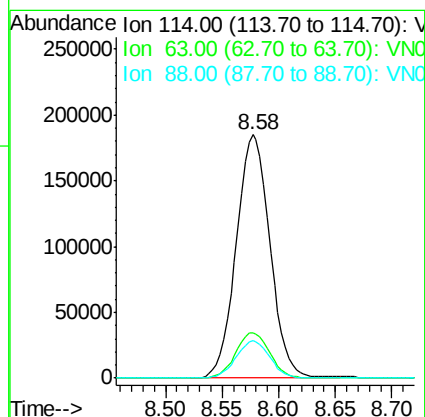
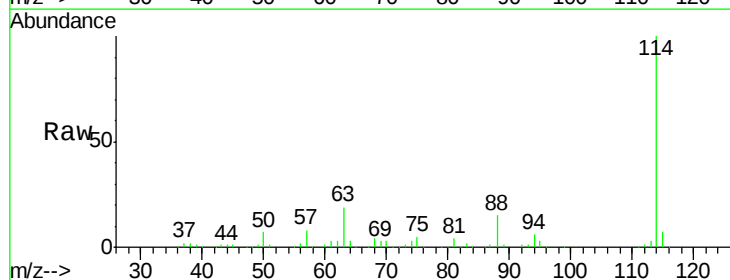
Tgt Ion: 114 Resp: 384723

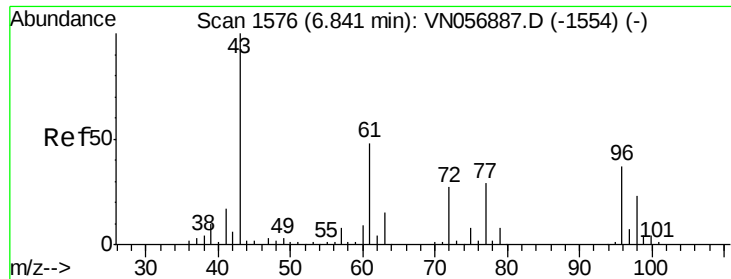
Ion Ratio Lower Upper

114 100

63 18.8 15.8 23.6

88 15.3 12.5 18.7





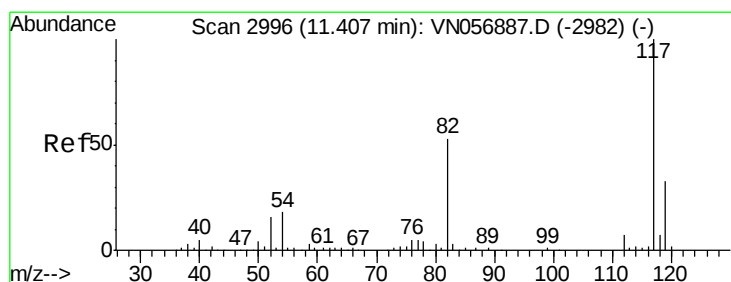
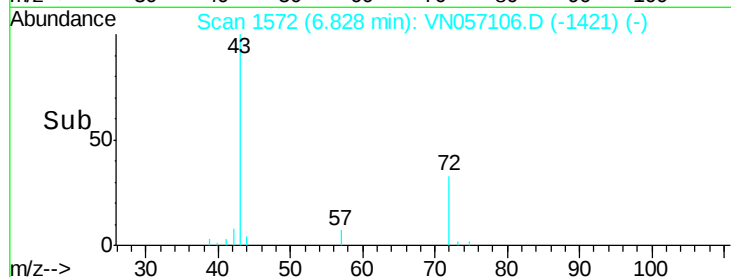
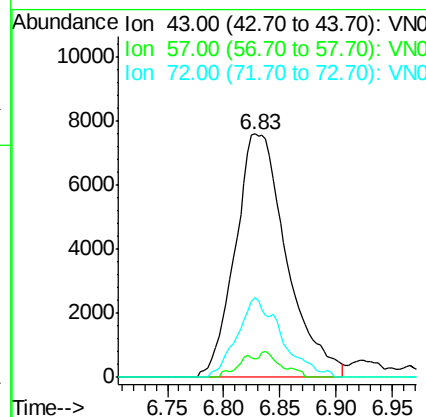
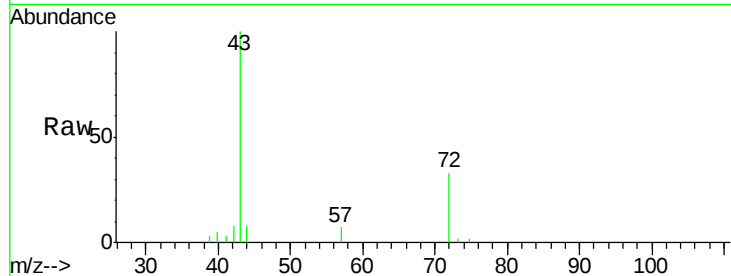
#30
2-Butanone
Concen: 10.975 ug/l m
RT: 6.83 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VN057106.D
Acq: 6 Aug 2019 16:26

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

Tot Ion	Ratio	Lower	Upper
43	100		
57	2.3	6.5	9.7#
72	18.9	22.1	33.1#

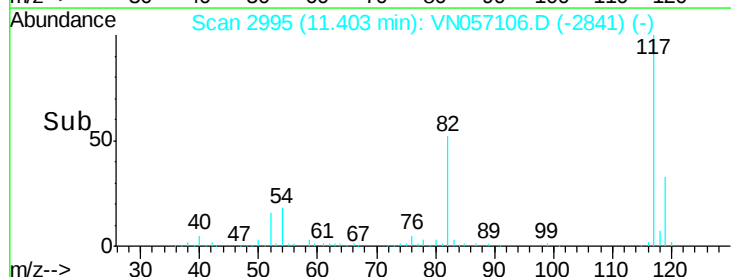
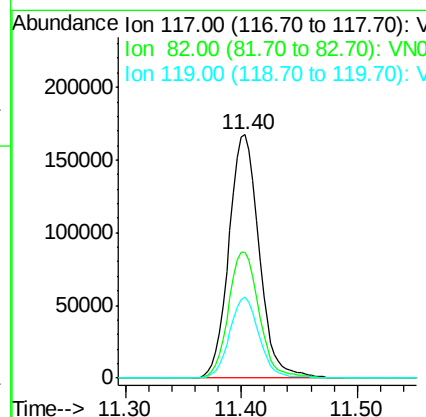
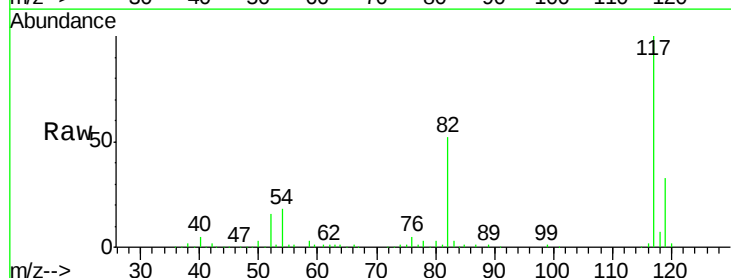
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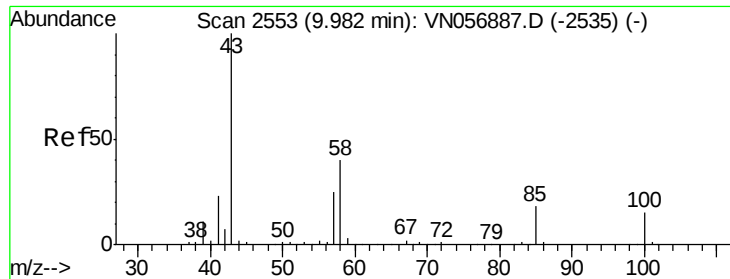
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#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057106.D
Acq: 6 Aug 2019 16:26

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.7	43.0	64.4
119	32.5	26.2	39.2





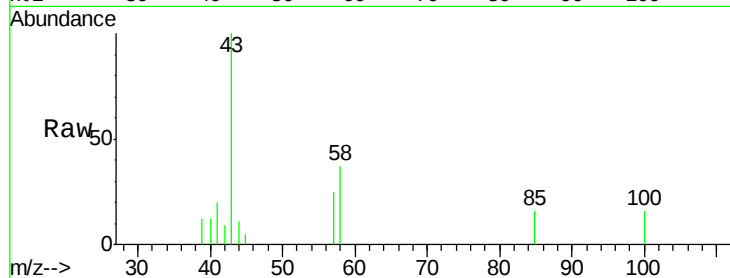
#58
4-Methyl-2-Pentanone
Concen: 1.761 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN057106.D
Acq: 6 Aug 2019 16:26

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

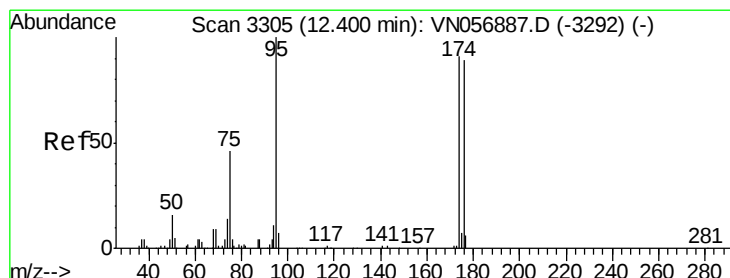
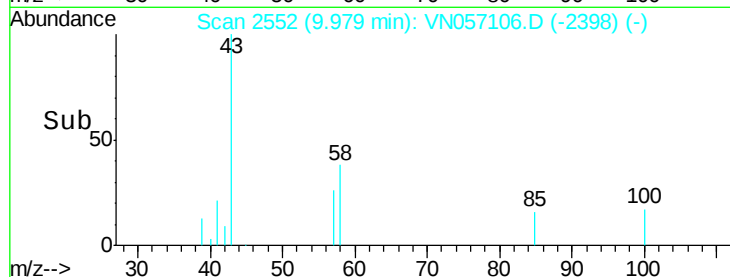
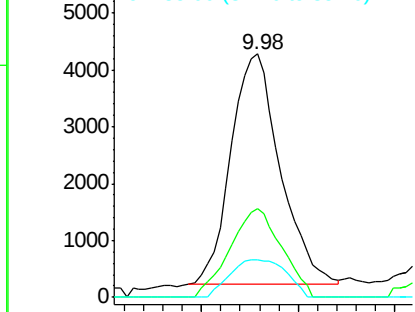
Tot Ion:	43	Resp:	7189
Ion	Ratio	Lower	Upper
43	100		
58	40.0	31.7	47.5
85	18.6	14.5	21.7

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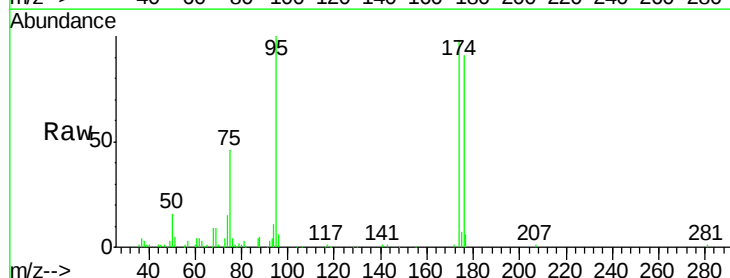


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

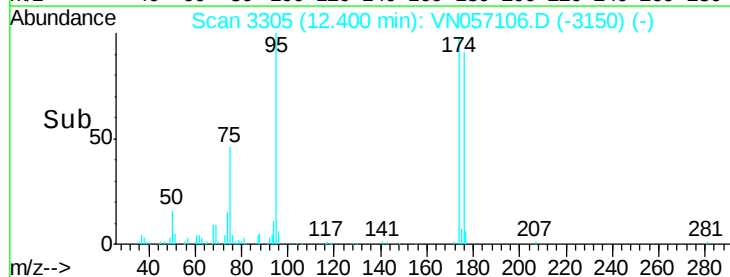
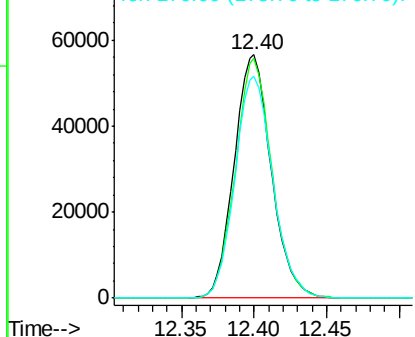


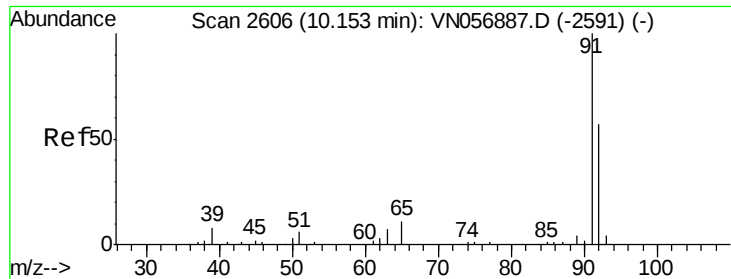
#60
4-Bromofluorobenzene
Concen: 22.091 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057106.D
Acq: 6 Aug 2019 16:26

Tgt Ion:	95	Resp:	100721
Ion	Ratio	Lower	Upper
95	100		
174	97.3	71.9	107.9
176	92.7	69.8	104.8



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 22.431 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057106.D

Acq: 6 Aug 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

Tot Ion: 91 Resp: 371121

Ion Ratio Lower Upper

91 100

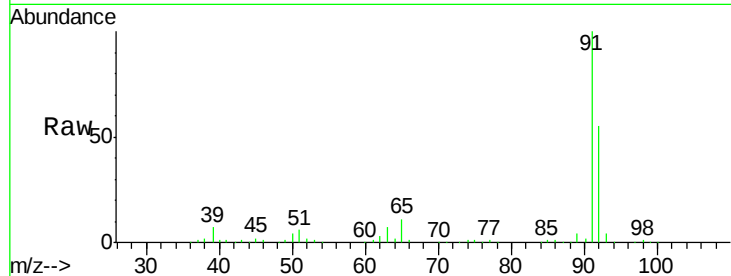
92 56.5 46.1 69.1

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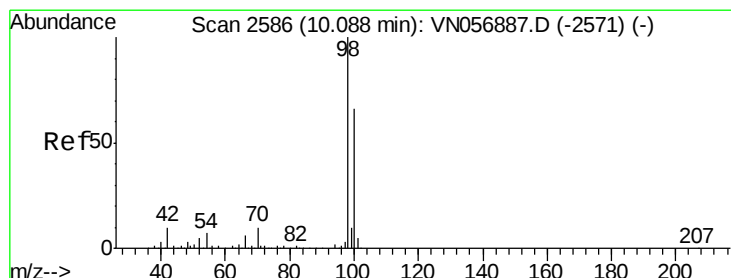
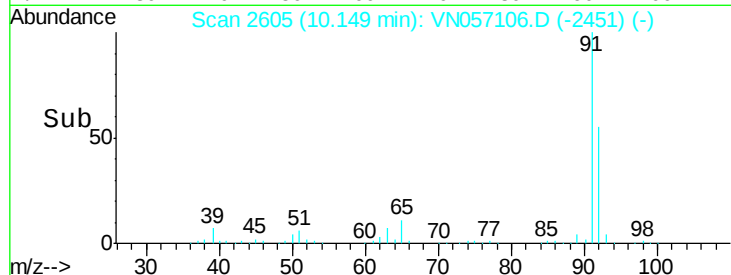
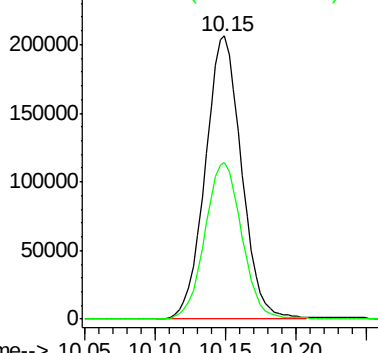
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0



#63

Toluene-d8

Concen: 31.766 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.01 min

Lab File: VN057106.D

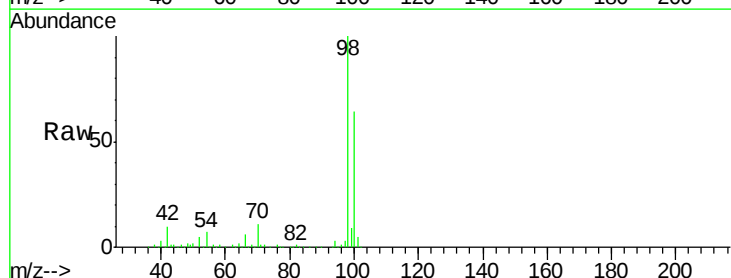
Acq: 6 Aug 2019 16:26

Tgt Ion: 98 Resp: 456471

Ion Ratio Lower Upper

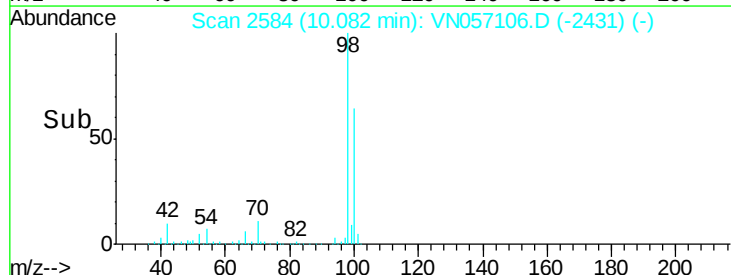
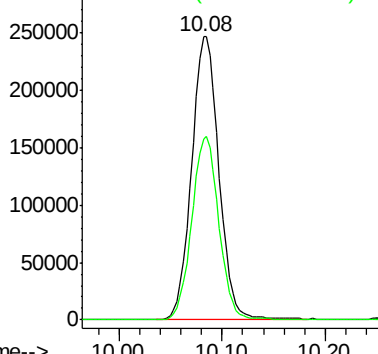
98 100

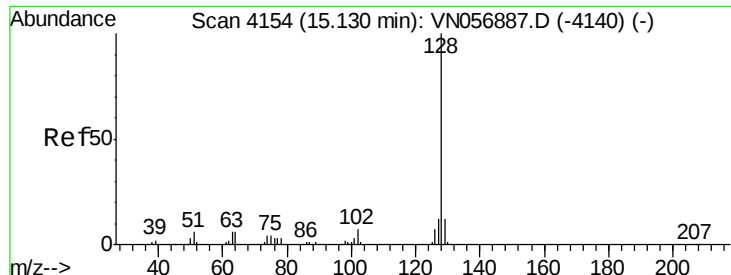
100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#91
Naphthalene
Concen: 8.091 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. -0.01 min
Lab File: VN057106.D
Acq: 6 Aug 2019 16:26

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.0	15.0#
129	5.8	8.9	13.3#

Manual Integrations
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