

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002688.D
 Acq On : 18 Jun 2018 19:14
 Operator : JC/MD
 Sample : J3522-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TPTW-01

Manual Integrations
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 6/19/2018 1:05:33 PM

Quant Time: Jun 19 10:53:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	40343	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	221355	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	203119	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.08	65	94567	30.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.33%
60) 4-Bromofluorobenzene	11.14	95	96984	28.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.37%
63) Toluene-d8	8.72	98	268876	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
11) Methyl Iodide	2.52	142	2597	1.08	ug/l	88
15) Acetone	2.45	58	8235	23.27	ug/l	93
16) Carbon Disulfide	2.57	76	7759	1.49	ug/l #	92
24) Methyl tert-Butyl Ether	3.21	73	227200	29.18	ug/l	100
30) 2-Butanone	4.73	43	6689	3.91	ug/l	94
34) Benzene	6.15	78	79694	9.00	ug/l	97
58) 4-Methyl-2-Pentanone	8.66	43	28375	8.23	ug/l	96
62) Toluene	8.79	91	471204	48.13	ug/l	98
66) Ethyl Benzene	10.26	91	173798	15.76	ug/l	99
67) m/p-Xylenes	10.36	106	424701	99.11	ug/l	99
68) o-Xylene	10.70	106	272224	65.21	ug/l	98
70) Isopropylbenzene	11.02	105	16100	1.40	ug/l	99
74) n-propylbenzene	11.37	91	30946	2.32	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	42246	4.32	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	122036	12.23	ug/l	98
91) Naphthalene	13.84	128	232966	19.57	ug/l	99

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

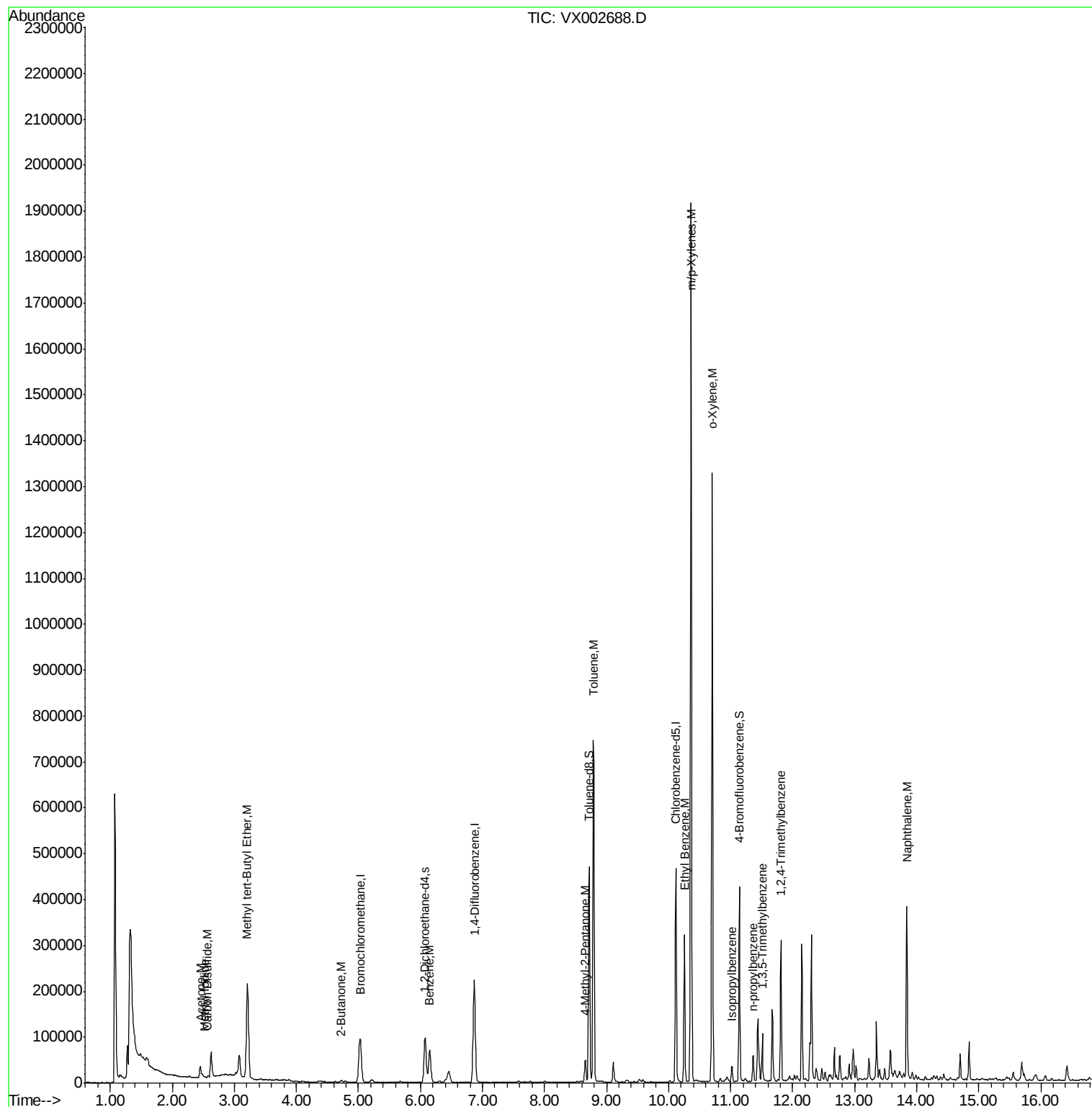
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061818\
Data File : VX002688.D
Acq On : 18 Jun 2018 19:14
Operator : JC/MD
Sample : J3522-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

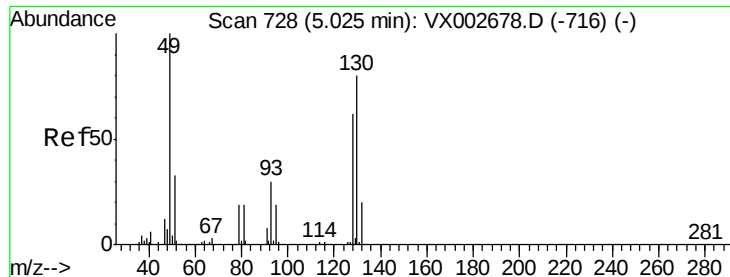
Instrument :
MSVOA_X
ClientSampleId :
TPTW-01

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Quant Time: Jun 19 10:53:15 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jun 18 15:18:02 2018
Response via : Initial Calibration





#1

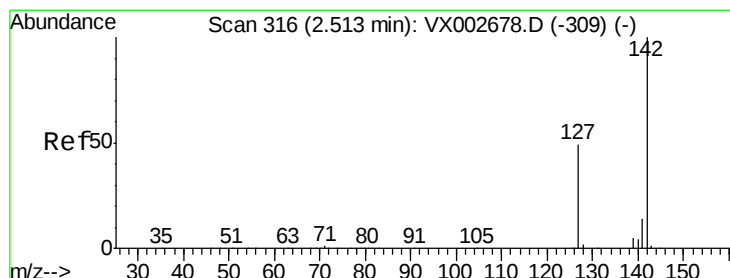
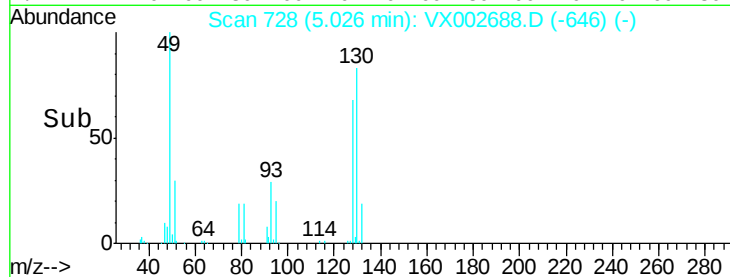
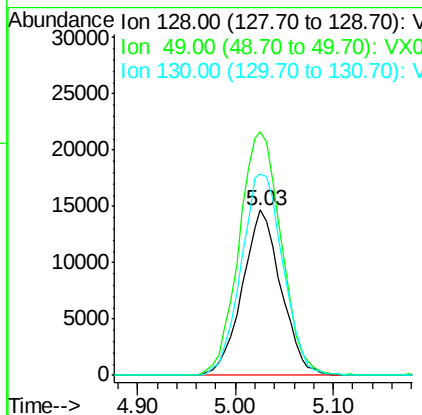
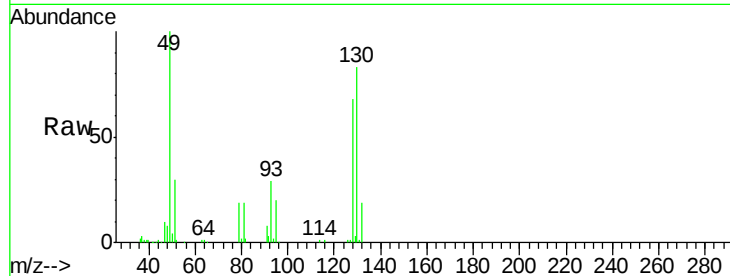
Bromochloromethane
 Concen: 30.00 ug/l
 RT: 5.03 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Instrument :
 MSVOA_X
 ClientSampled :
 TPTW-01

Tot Ion	Ratio	Lower	Upper
128	100		
49	160.0	0.0	423.0
130	132.1	0.0	324.3

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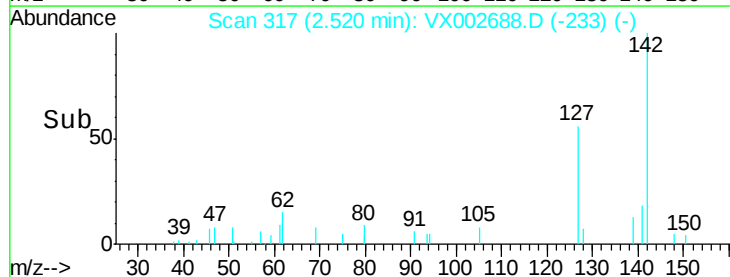
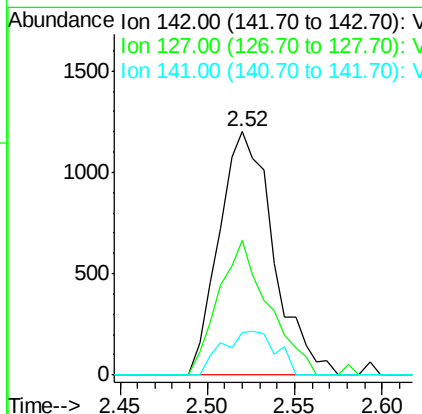
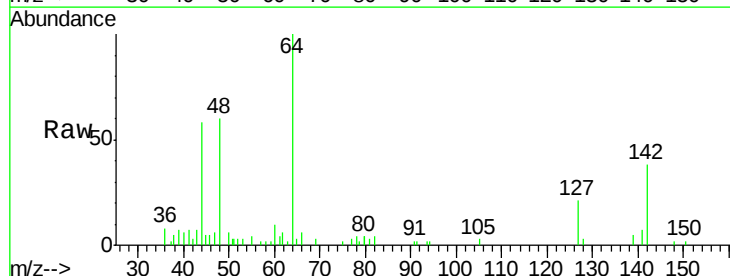
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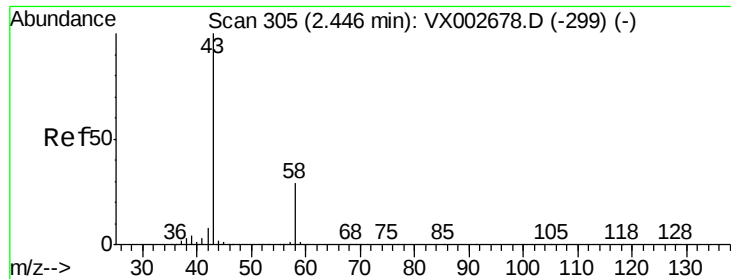


#11

Methyl Iodide
 Concen: 1.08 ug/l
 RT: 2.52 min Scan# 317
 Delta R.T. 0.01 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Tgt Ion	Ratio	Lower	Upper
142	100		
127	55.6	23.2	69.6
141	17.7	7.4	22.2





#15

Acetone

Concen: 23.27 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.01 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TPTW-01

Tot Ion: 58 Resp: 8235

Ion Ratio Lower Upper

58 100

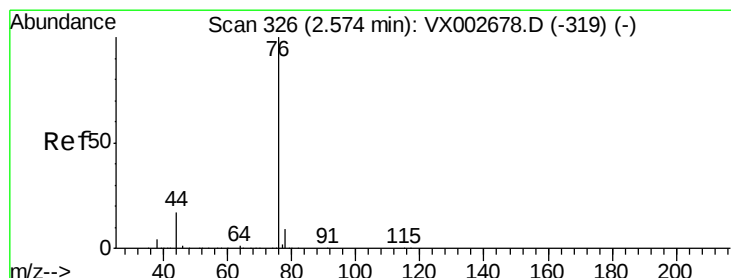
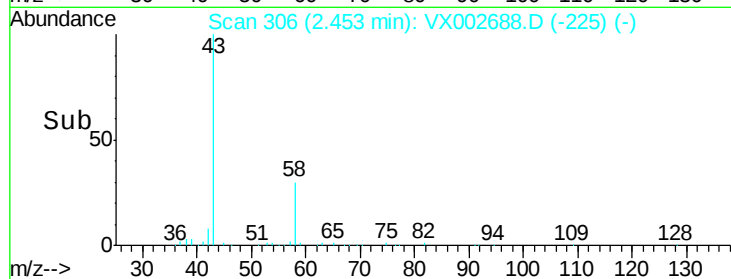
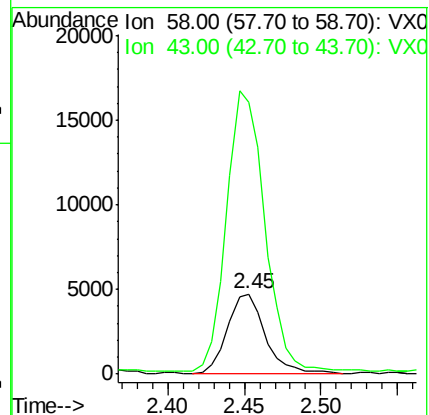
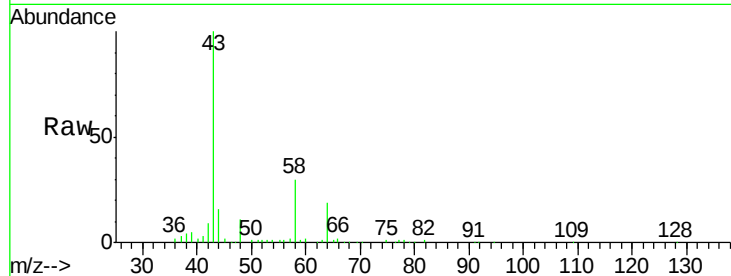
43 333.4 278.8 418.2

Manual Integrations

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#16

Carbon Disulfide

Concen: 1.49 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002688.D

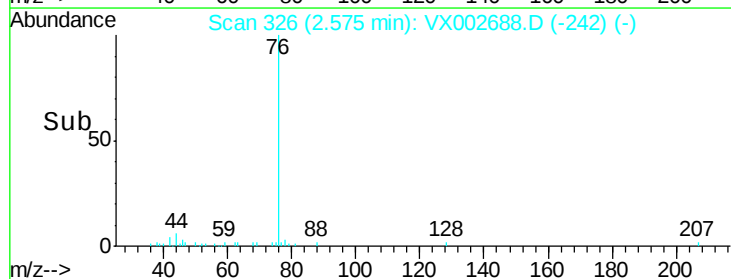
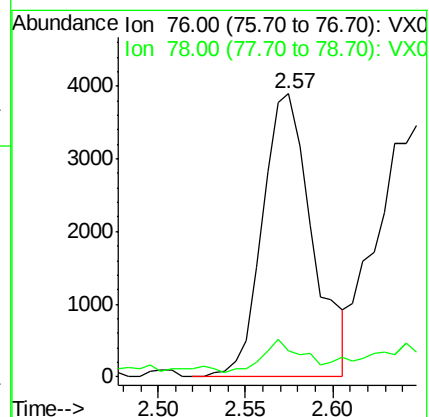
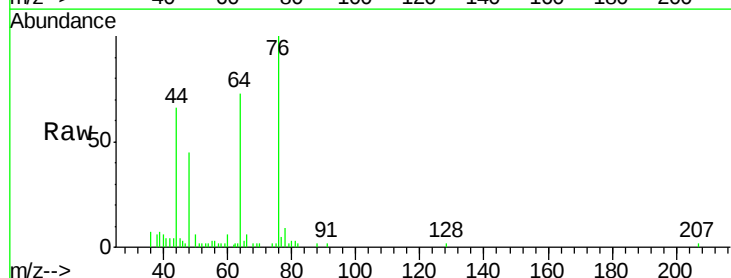
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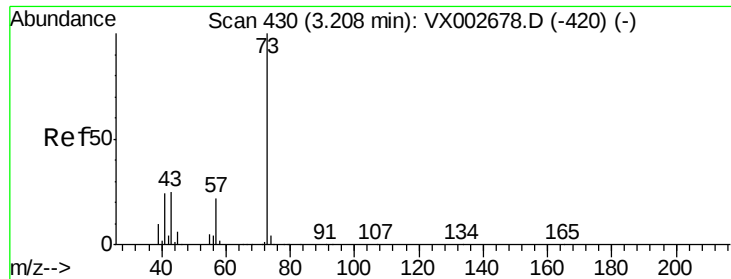
Tgt Ion: 76 Resp: 7759

Ion Ratio Lower Upper

76 100

78 6.1 7.4 11.0#





#24

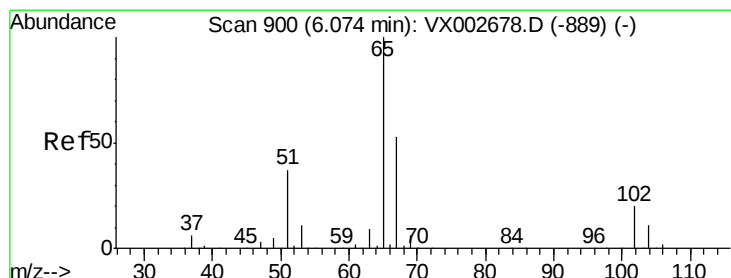
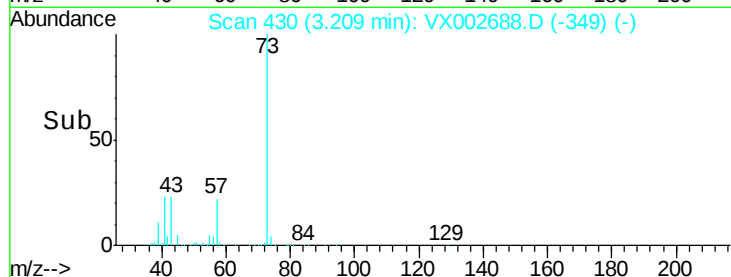
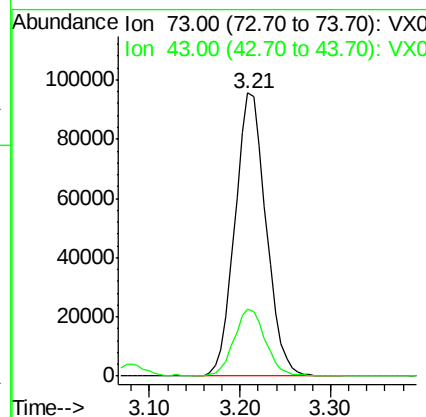
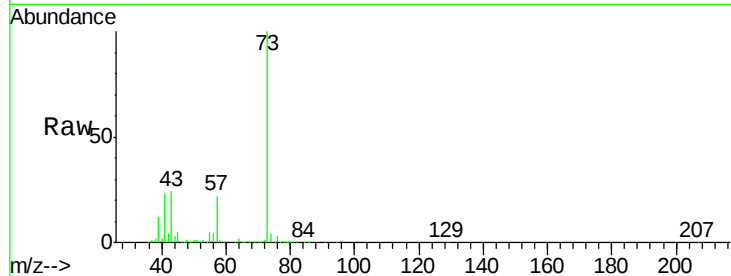
Methyl tert-Butyl Ether
 Concen: 29.18 ug/l
 RT: 3.21 min Scan# 430
 Delta R.T. -0.01 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Instrument :
 MSVOA_X
 ClientSampled :
 TPTW-01

Tot Ion	73	Resp	227200
Ion Ratio	100	Lower	Upper
73	100		
43	23.5	19.0	28.4

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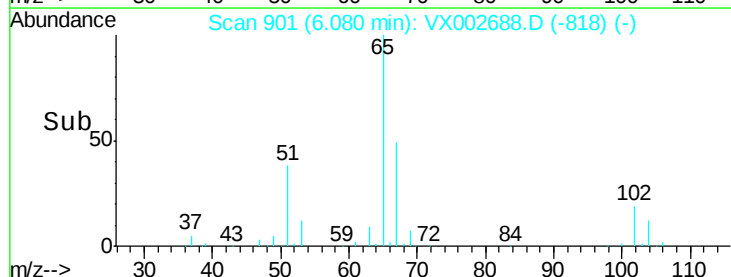
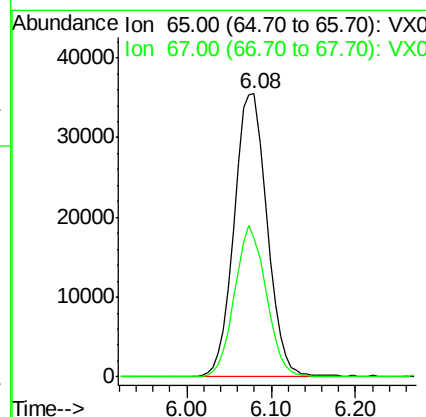
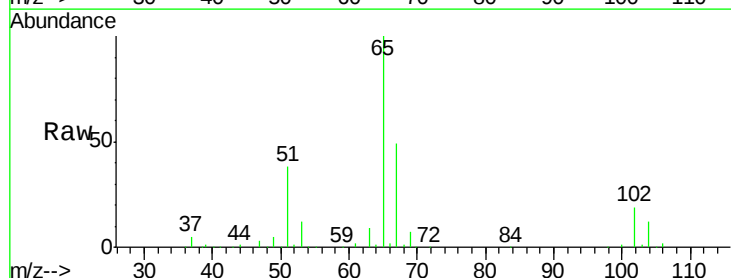
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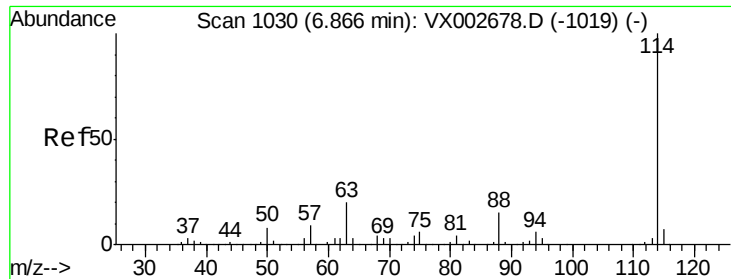


#27

1,2-Dichloroethane-d4
 Concen: 30.70 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Tgt Ion	65	Resp	94567
Ion Ratio	100	Lower	Upper
65	100		
67	51.1	40.9	61.3





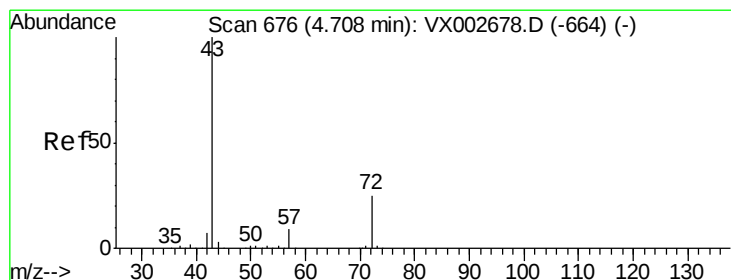
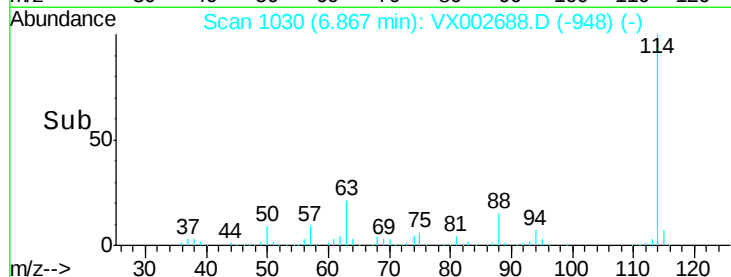
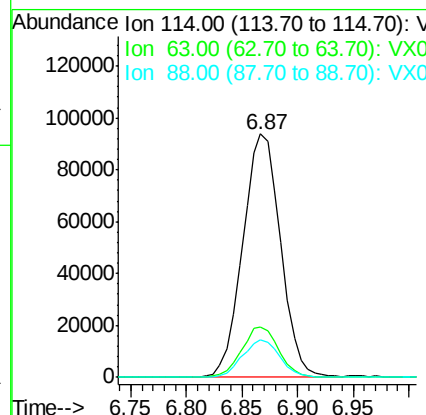
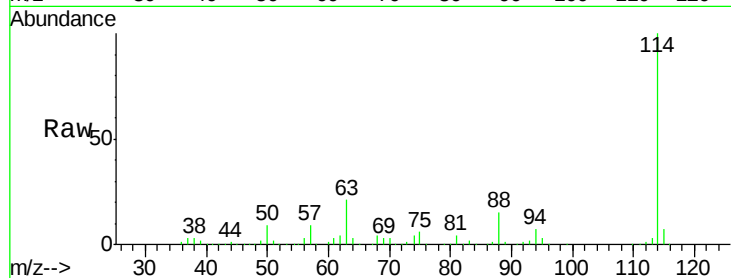
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Instrument :
 MSVOA_X
 ClientSampleId :
 TPTW-01

Tot Ion	Ratio	Resp	Lower	Upper
114	100	221355		
63	20.4		17.1	25.7
88	15.2		12.6	19.0

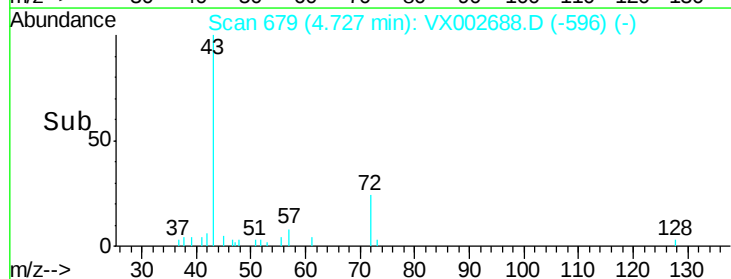
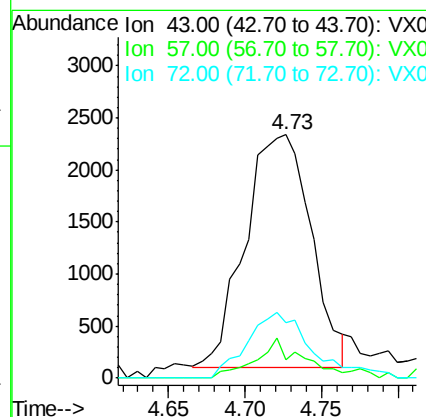
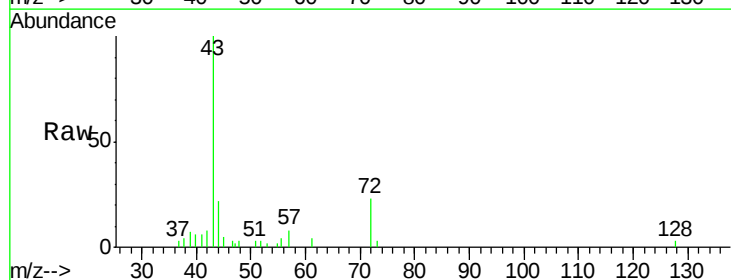
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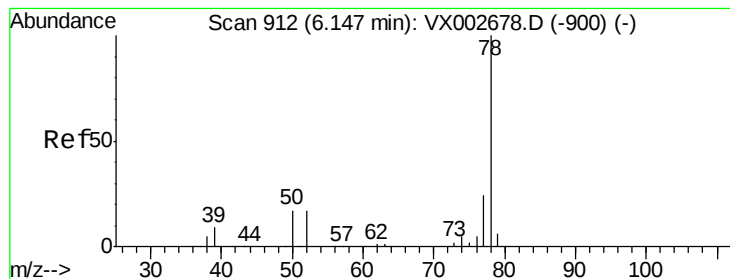
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#30
 2-Butanone
 Concen: 3.91 ug/l
 RT: 4.73 min Scan# 679
 Delta R.T. 0.01 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	6689		
57	7.5		6.1	9.1
72	26.3		18.1	27.1





#34

Benzene

Concen: 9.00 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

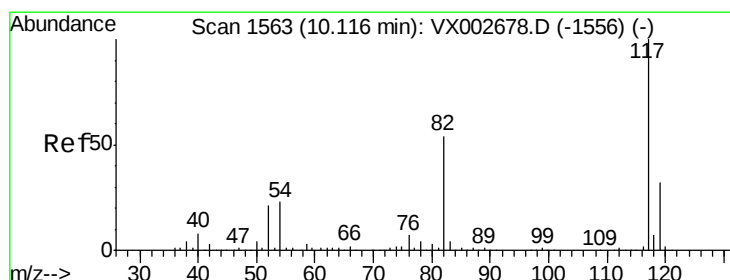
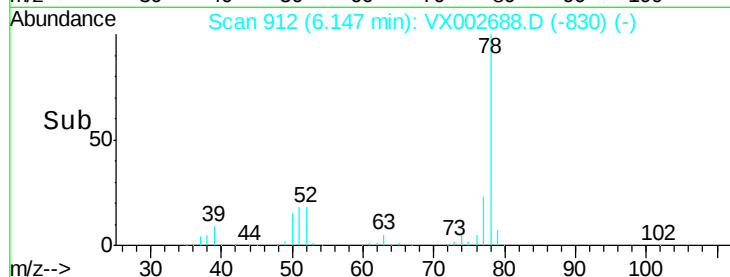
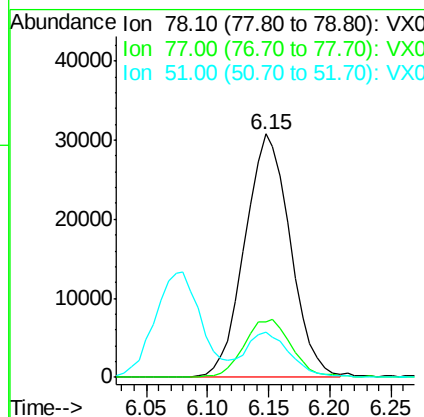
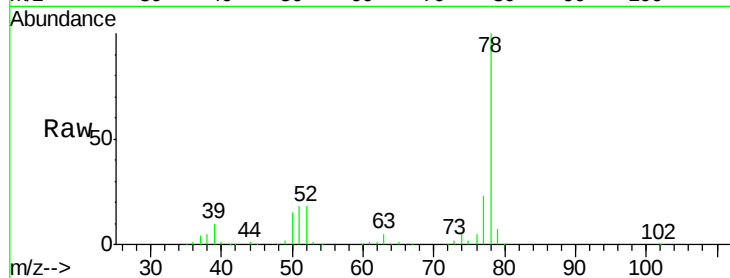
ClientSampleId :

TPTW-01

Tot Ion:	78	Resp:	79694
Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.4	29.0
51	18.0	13.8	20.6

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#57

Chlorobenzene-d5

Concen: 30.00 ug/l

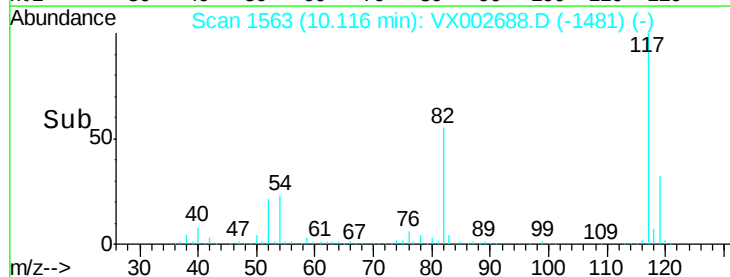
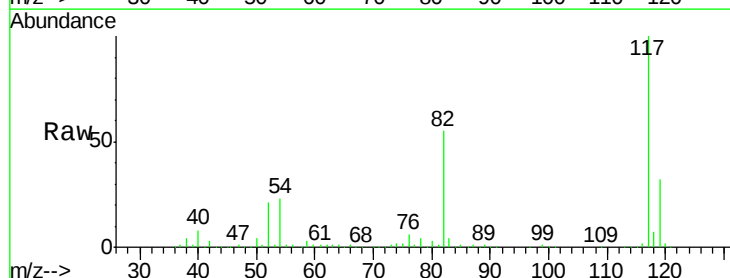
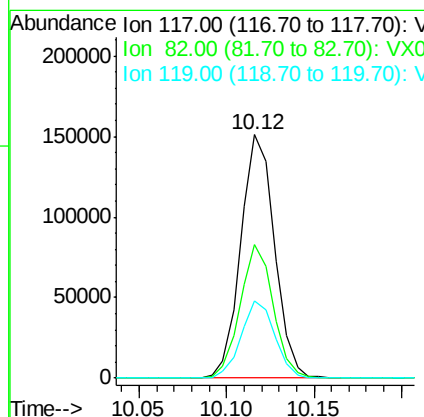
RT: 10.12 min Scan# 1563

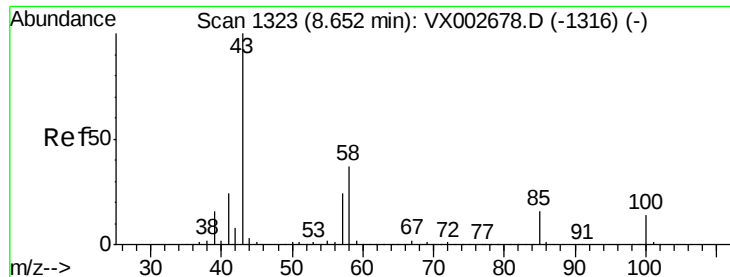
Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Tgt Ion:	117	Resp:	203119
Ion	Ratio	Lower	Upper
117	100		
82	53.6	44.3	66.5
119	31.8	25.7	38.5





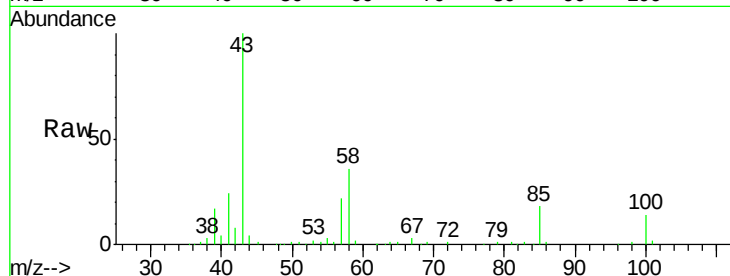
#58
 4-Methyl-2-pentanone
 Concen: 8.23 ug/l
 RT: 8.66 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Instrument :
 MSVOA_X
 ClientSampleId :
 TPTW-01

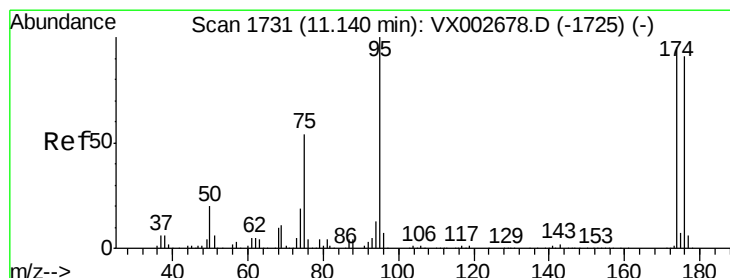
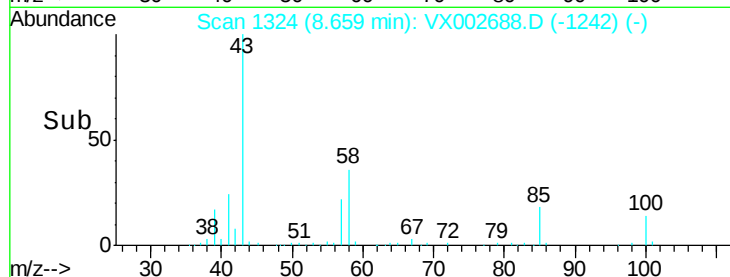
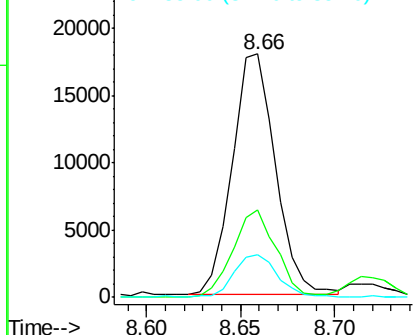
Tot Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.2	42.4
85	17.9	12.4	18.6

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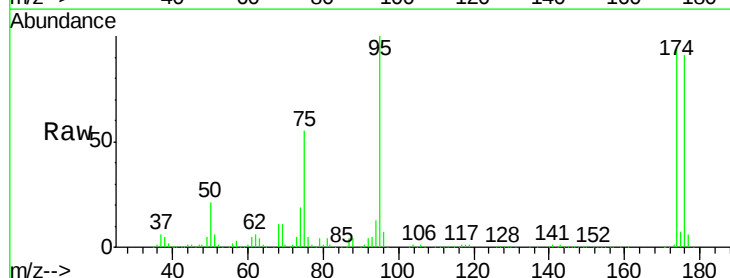


Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0
 Ion 85.00 (84.70 to 85.70): VX0

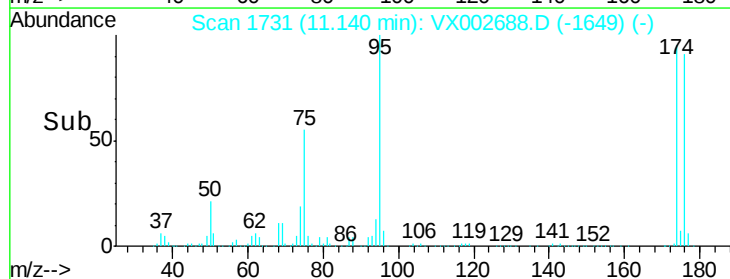
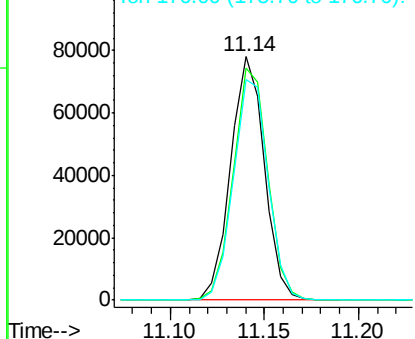


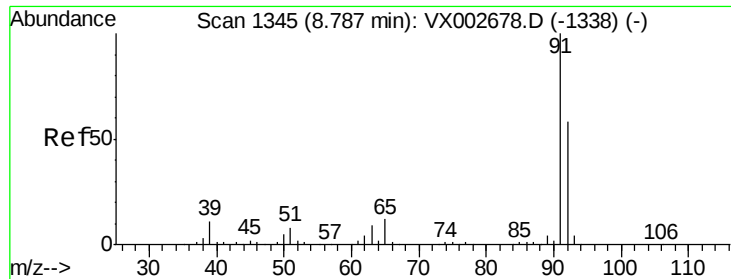
#60
 4-Bromofluorobenzene
 Concen: 28.91 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX002688.D
 Acq: 18 Jun 2018 19:14

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.6	71.8	107.6
176	93.5	70.1	105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0
 Ion 174.00 (173.70 to 174.70): V
 Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 48.13 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TPTW-01

Tot Ion: 91 Resp: 471204

Ion Ratio Lower Upper

91 100

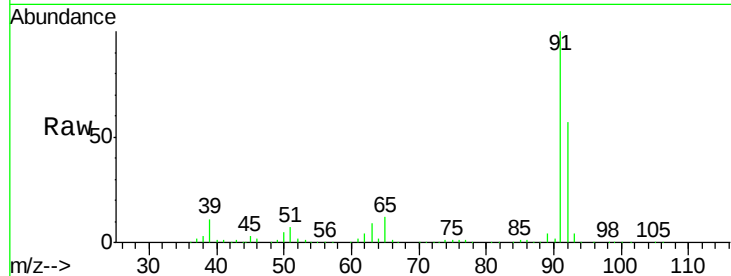
92 56.9 46.5 69.7

Manual Integrations

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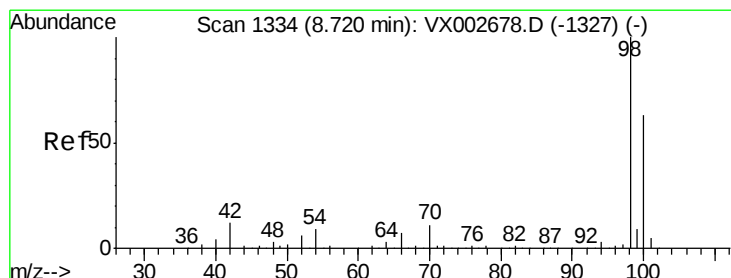
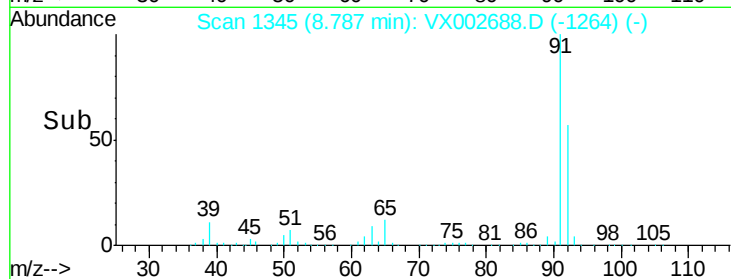
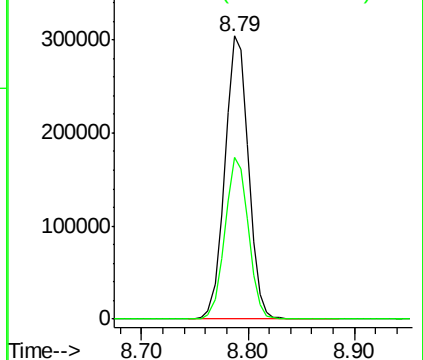
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 30.30 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002688.D

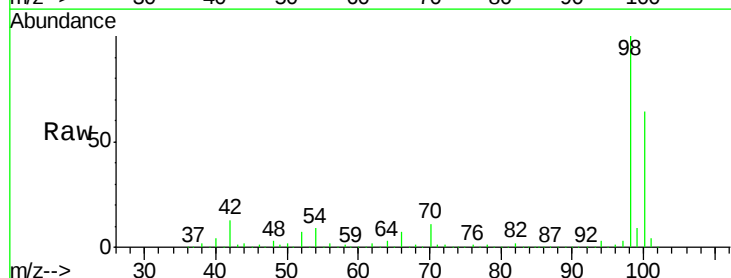
Acq: 18 Jun 2018 19:14

Tgt Ion: 98 Resp: 268876

Ion Ratio Lower Upper

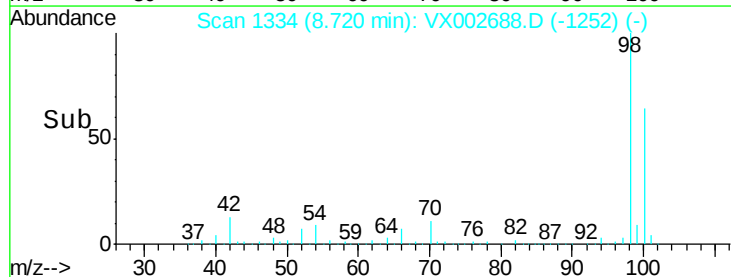
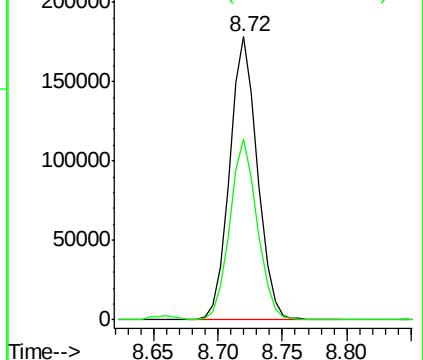
98 100

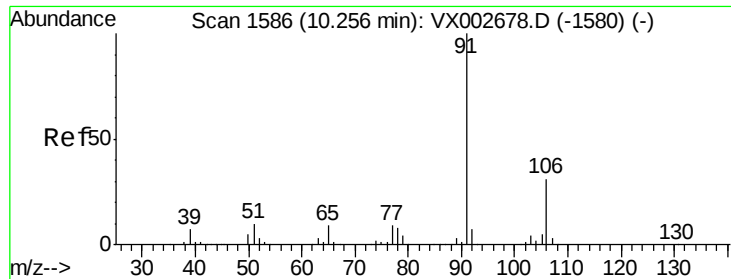
100 63.2 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#66

Ethyl Benzene

Concen: 15.76 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

ClientSampled :

TPTW-01

Tot Ion: 91 Resp: 173798

Ion Ratio Lower Upper

91 100

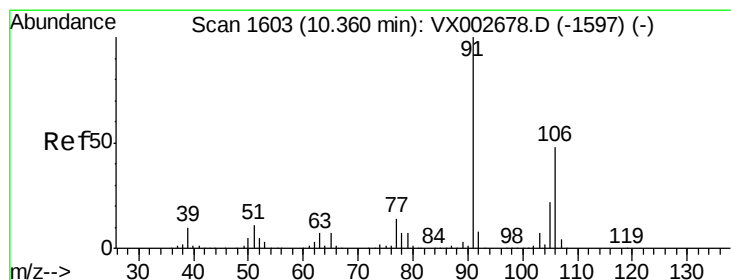
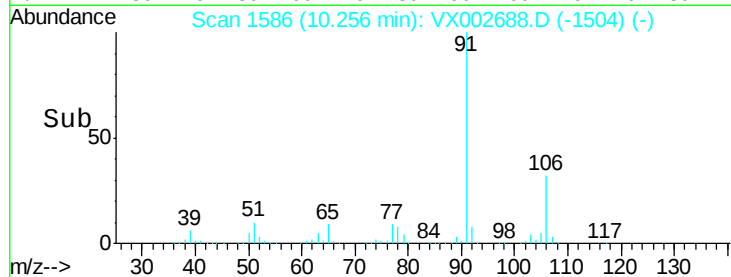
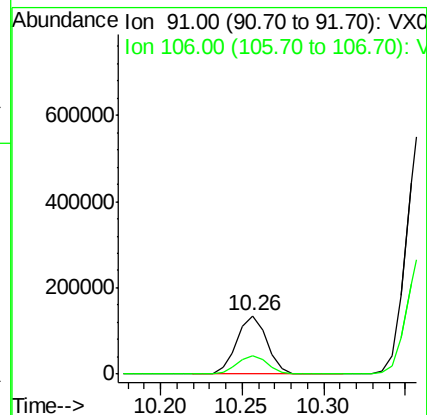
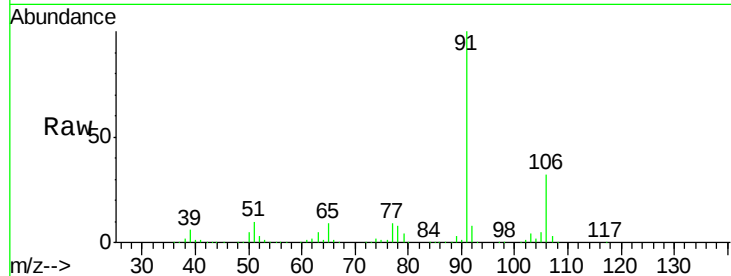
106 32.1 25.2 37.8

Manual Integrations

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#67

m/p-Xylenes

Concen: 99.11 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX002688.D

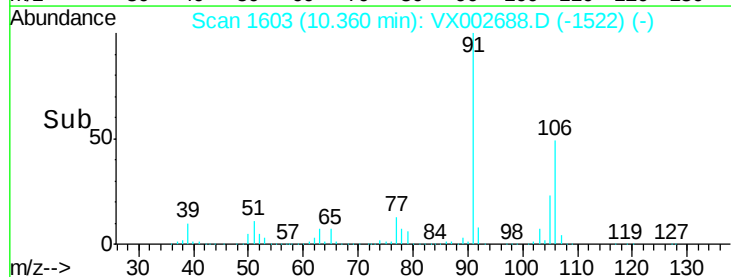
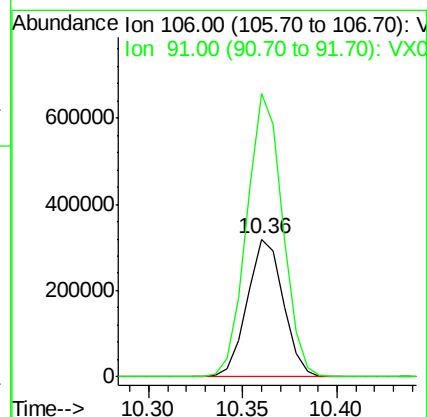
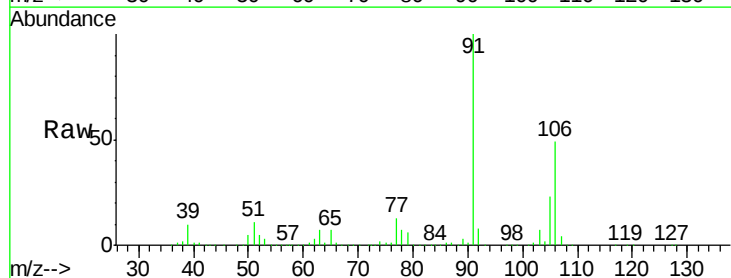
Acq: 18 Jun 2018 19:14

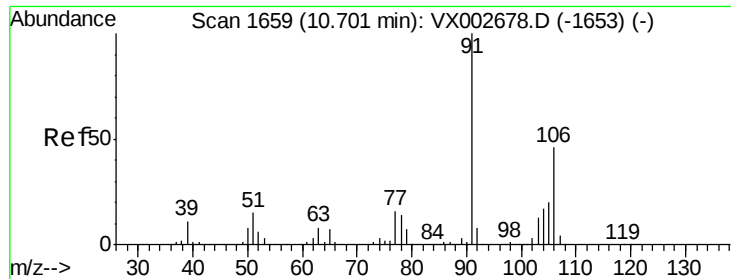
Tgt Ion: 106 Resp: 424701

Ion Ratio Lower Upper

106 100

91 203.5 164.1 246.1





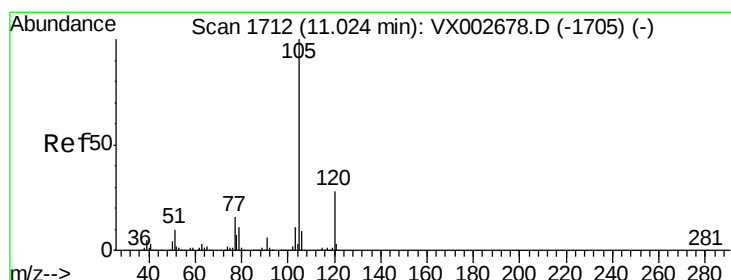
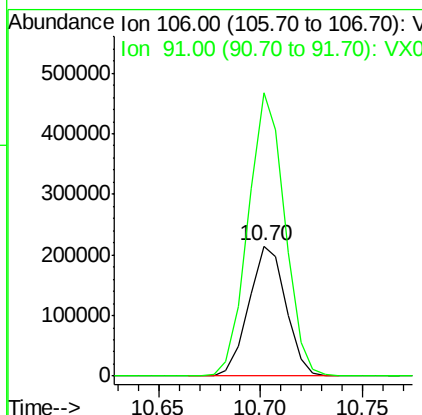
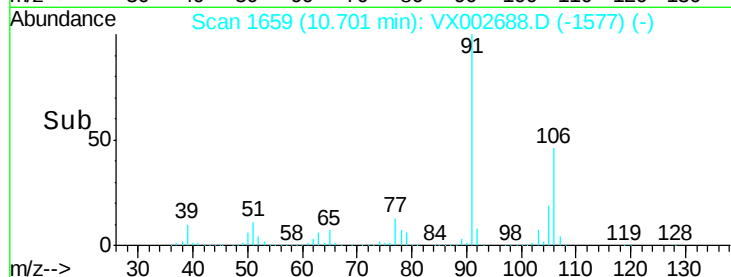
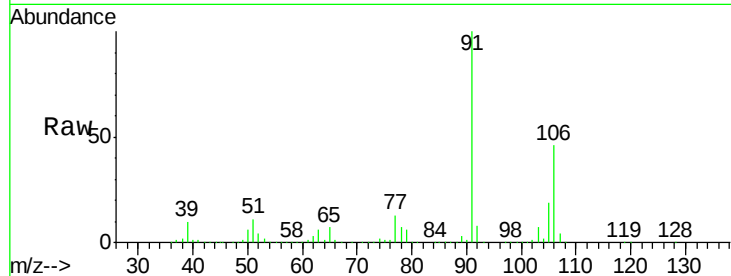
#68
o-Xylene
Concen: 65.21 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX002688.D
Acq: 18 Jun 2018 19:14

Instrument :
MSVOA_X
ClientSampled :
TPTW-01

Tot Ion:106 Resp: 272224
Ion Ratio Lower Upper
106 100
91 214.8 109.1 327.3

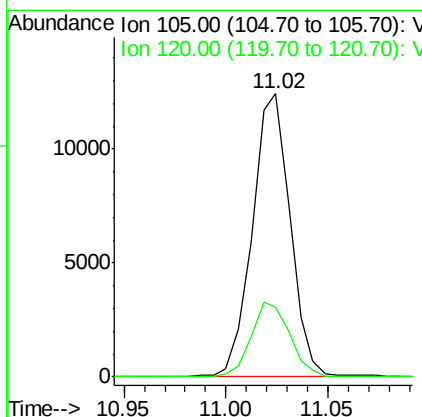
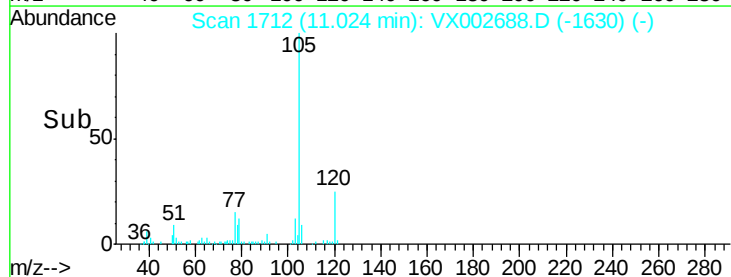
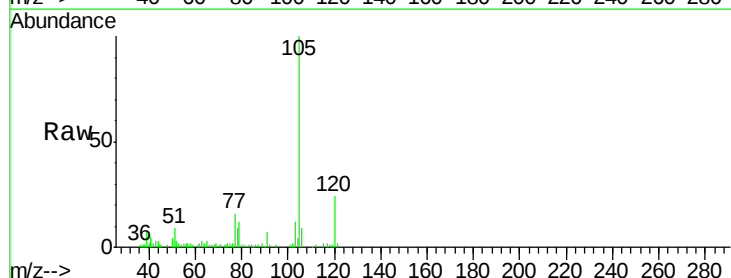
Manual Integrations
APPROVED

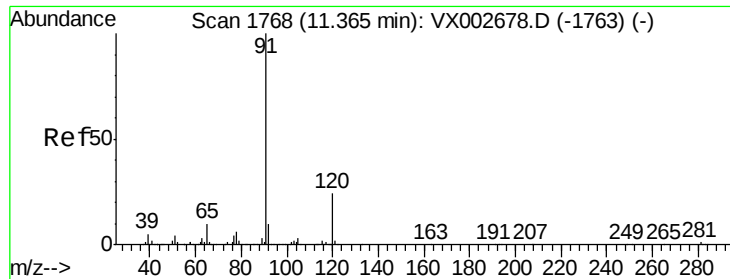
MMDadoda
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#70
Isopropylbenzene
Concen: 1.40 ug/l
RT: 11.02 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VX002688.D
Acq: 18 Jun 2018 19:14

Tgt Ion:105 Resp: 16100
Ion Ratio Lower Upper
105 100
120 26.6 19.0 35.2





#74

n-propylbenzene

Concen: 2.32 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

ClientSampled :

TPTW-01

Tot Ion: 91 Resp: 30946

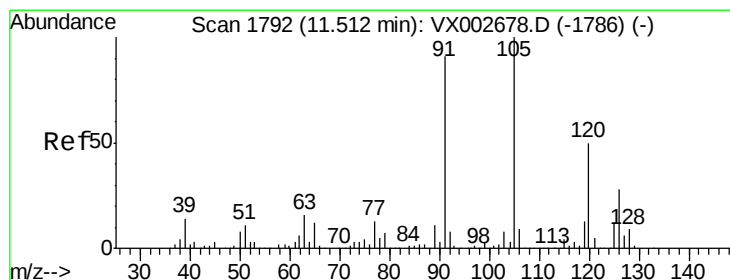
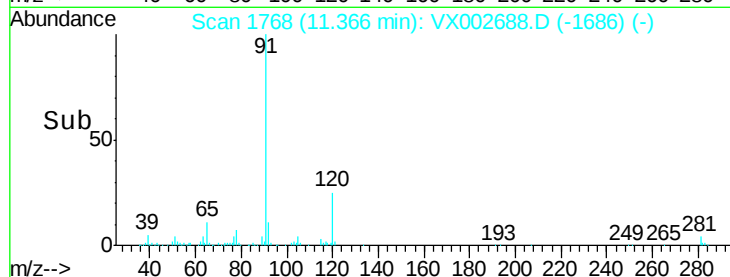
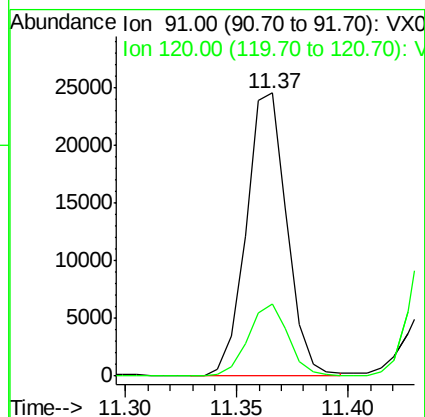
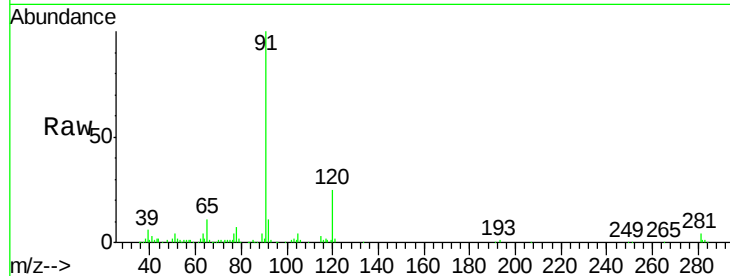
Ion Ratio Lower Upper

91 100

120 25.2 0.0 46.2

Manual Integrations
APPROVED

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#76

1,3,5-Trimethylbenzene

Concen: 4.32 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX002688.D

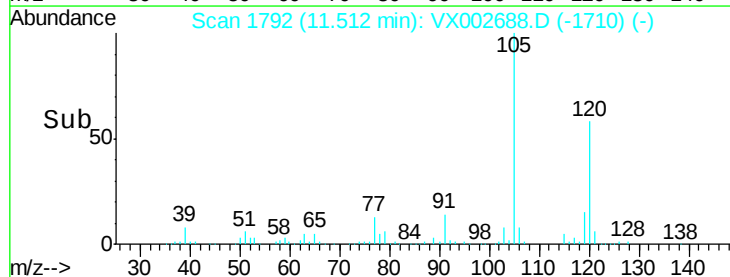
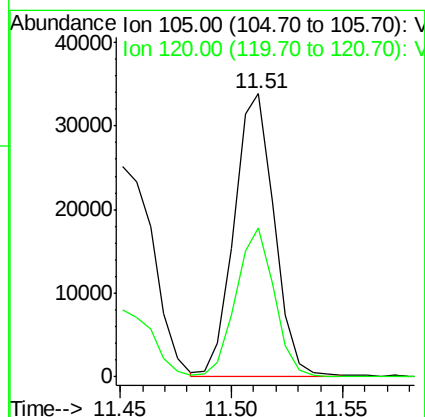
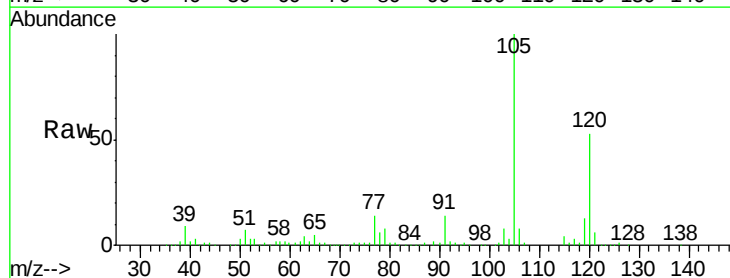
Acq: 18 Jun 2018 19:14

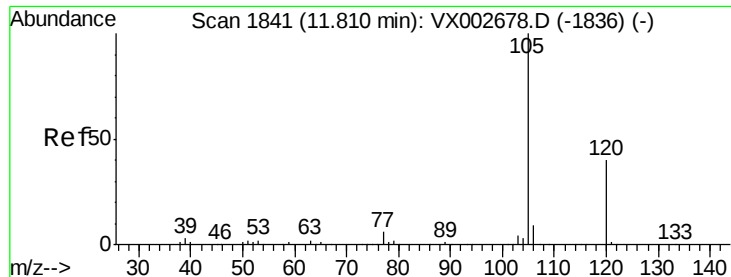
Tgt Ion: 105 Resp: 42246

Ion Ratio Lower Upper

105 100

120 50.6 0.0 96.8





#80

1,2,4-Trimethylbenzene

Concen: 12.23 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

Instrument :

MSVOA_X

ClientSampled :

TPTW-01

Tot Ion:105 Resp: 122036

Ion Ratio Lower Upper

105 100

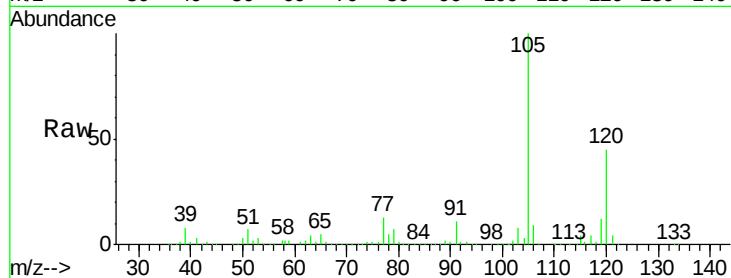
120 45.6 0.0 89.2

Manual Integrations

APPROVED

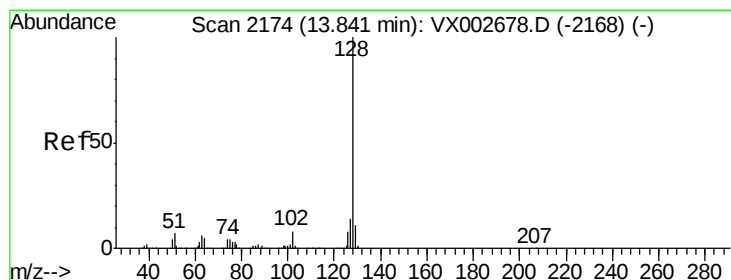
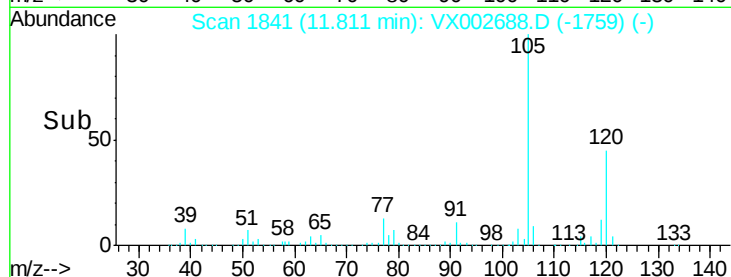
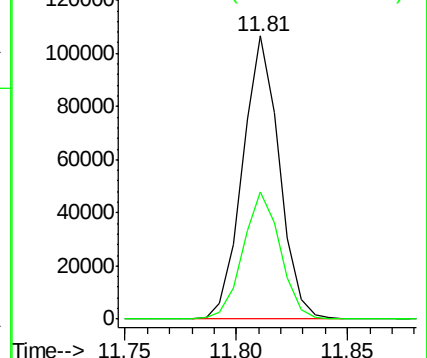
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#91

Naphthalene

Concen: 19.57 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002688.D

Acq: 18 Jun 2018 19:14

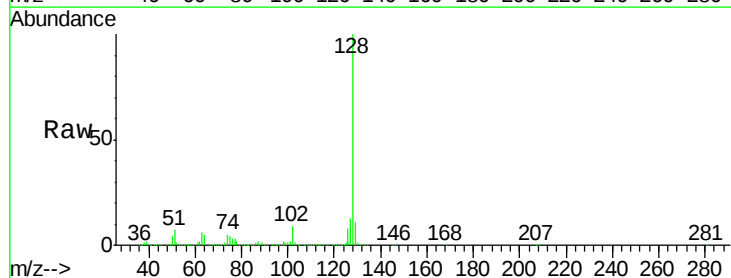
Tgt Ion:128 Resp: 232966

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

129 11.2 8.9 13.3



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

