

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101618\
 Data File : VX005362.D
 Acq On : 16 Oct 2018 11:26
 Operator : JC/MD
 Sample : J5521-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP-04

Manual Integrations
 APPROVED

MMDadoda
 10/17/2018 9:34:36 AM

Quant Time: Oct 17 05:45:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	300350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	429780	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	389725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212287	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	164967	49.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.98%	
35) Dibromofluoromethane	5.50	113	133930	47.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.10%	
50) Toluene-d8	8.71	98	518855	53.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	11.14	95	185563	50.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.10%	
Target Compounds						
					Qvalue	
16) Acetone	2.45	43	31548	16.369	ug/l	100
25) 2-Butanone	4.70	43	12015	4.261	ug/l	98
31) Cyclohexane	5.57	56	6735	1.470	ug/l	90
39) Methylcyclohexane	7.46	83	5828	1.294	ug/l	94
40) Benzene	6.14	78	26307	2.107	ug/l	98
52) Toluene	8.79	92	3100	0.454	ug/l	96
67) Ethyl Benzene	10.25	91	28251	2.096	ug/l	97
68) m/p-Xylenes	10.36	106	13143	2.513	ug/l	98
69) o-Xylene	10.70	106	5081	1.007	ug/l	95
73) Isopropylbenzene	11.02	105	54487	4.318	ug/l	99
78) n-propylbenzene	11.36	91	171048	11.778	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	52111	4.822	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	218098	19.611	ug/l	99
85) sec-Butylbenzene	11.94	105	18103	1.398	ug/l	97
86) p-Isopropyltoluene	12.06	119	2923m	0.250	ug/l	
89) n-Butylbenzene	12.39	91	25959	2.442	ug/l #	51
95) Naphthalene	13.83	128	88344	6.034	ug/l	98

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

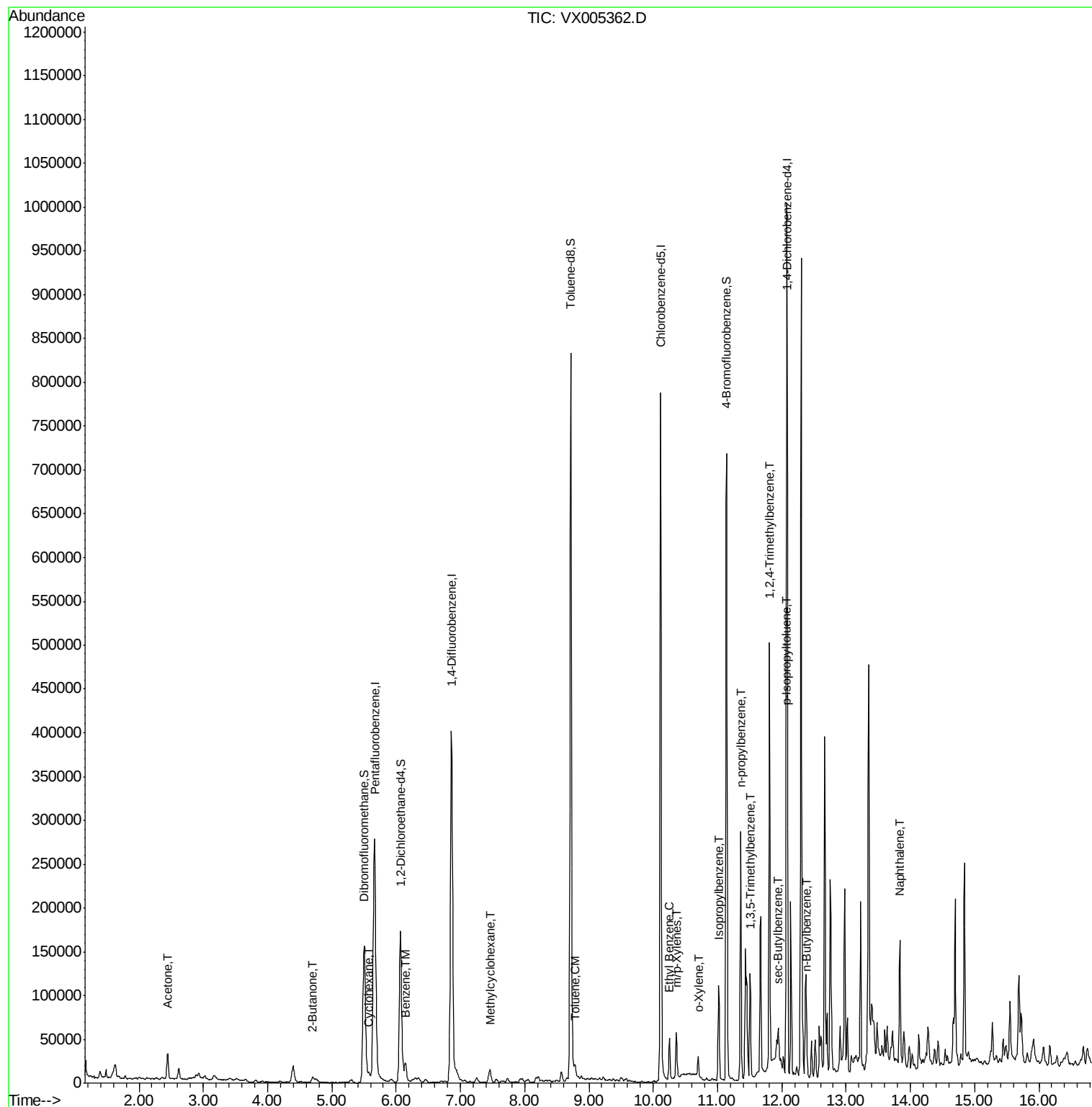
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101618\
Data File : VX005362.D
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ALS Vial : 9 Sample Multiplier: 1

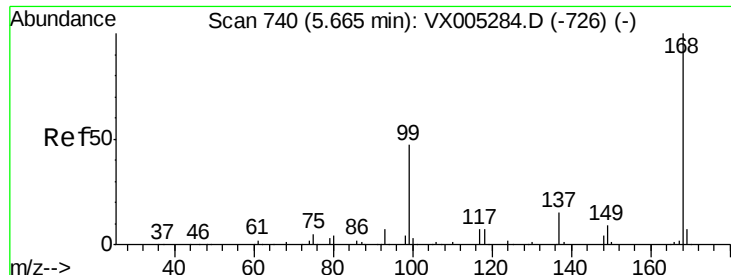
Instrument :
MSVOA_X
ClientSampleId :
TWP-04

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Quant Time: Oct 17 05:45:17 2018
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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

ClientSampleId :

TWP-04

Tot Ion:168 Resp: 300350

Ion Ratio Lower Upper

168 100

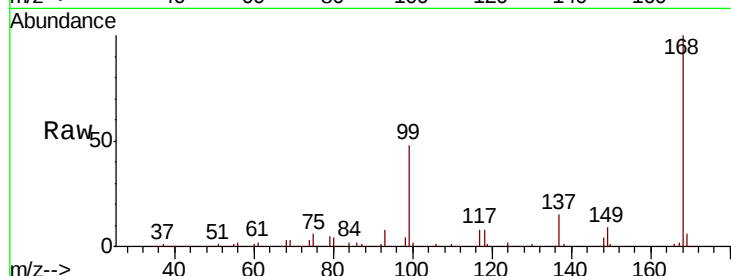
99 48.3 39.9 59.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

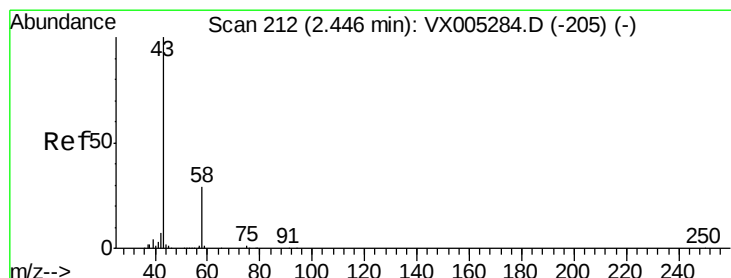
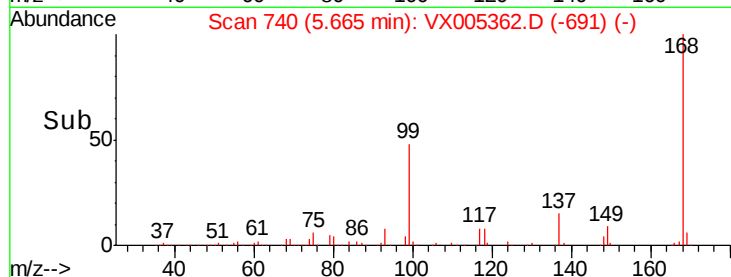
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#16

Acetone

Concen: 16.369 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005362.D

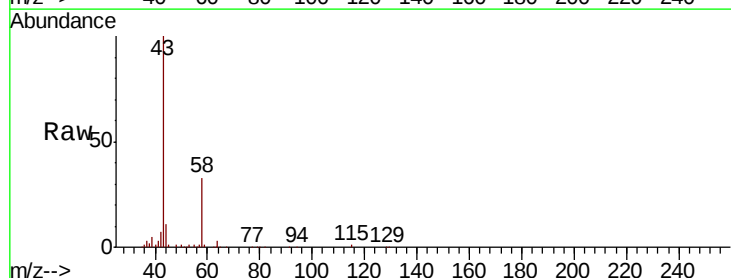
Acq: 16 Oct 2018 11:26

Tgt Ion: 43 Resp: 31548

Ion Ratio Lower Upper

43 100

58 32.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

20000

15000

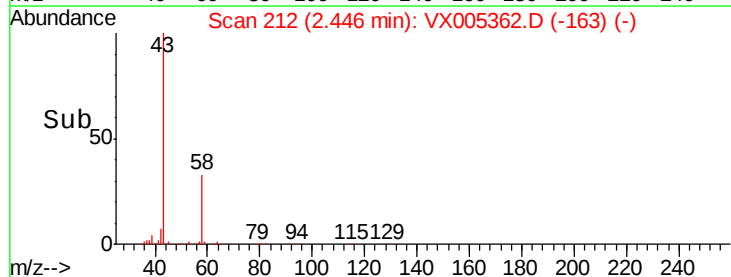
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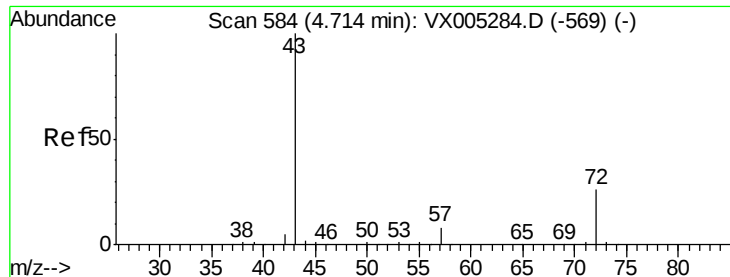
5000

0

2.35 2.40 2.45 2.50 2.55

Time-->





#25

2-Butanone

Concen: 4.261 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

ClientSampleId :

TWP-04

Tot Ion: 43 Resp: 12015

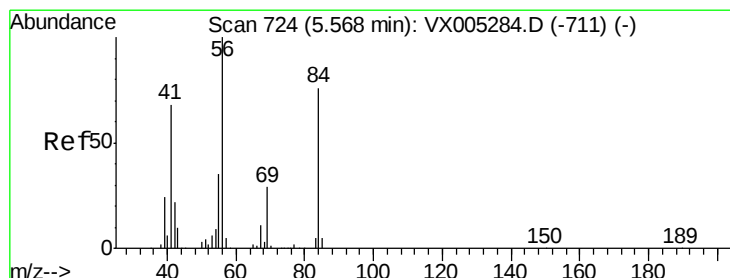
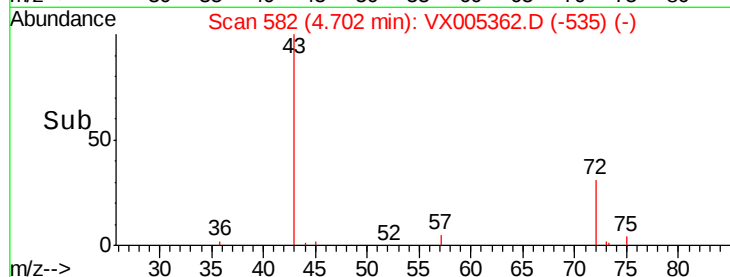
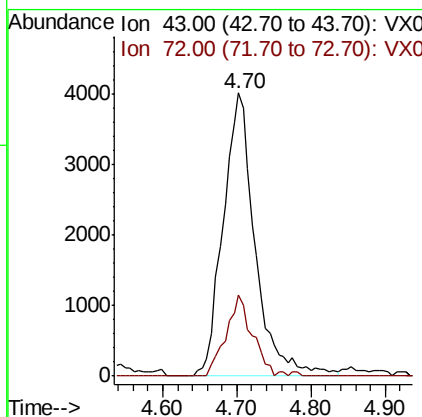
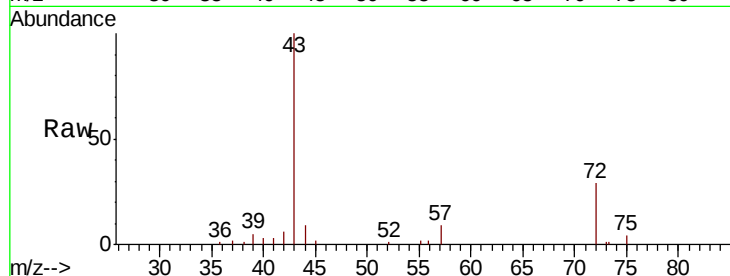
Ion Ratio Lower Upper

43 100

72 28.6 22.0 33.0

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#31

Cyclohexane

Concen: 1.470 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.01 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

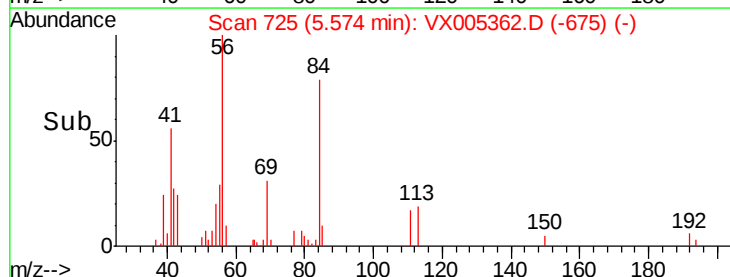
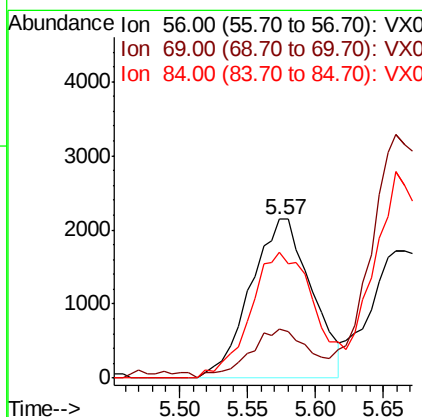
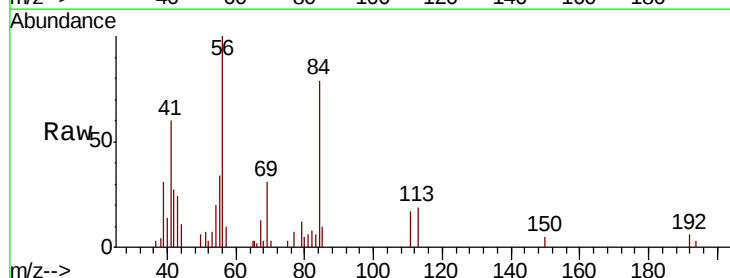
Tgt Ion: 56 Resp: 6735

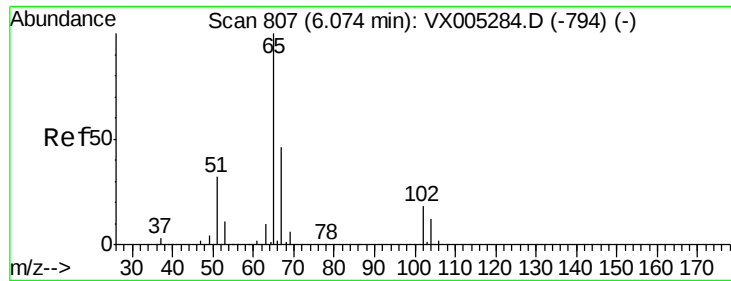
Ion Ratio Lower Upper

56 100

69 28.1 25.4 38.2

84 79.3 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 49.489 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

ClientSampleId :

TWP-04

Tot Ion: 65 Resp: 164967

Ion Ratio Lower Upper

65 100

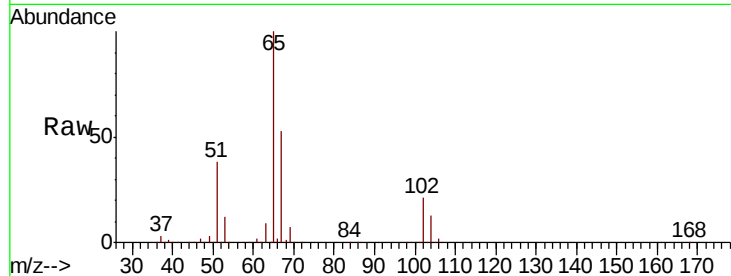
67 53.0 0.0 106.8

Manual Integrations

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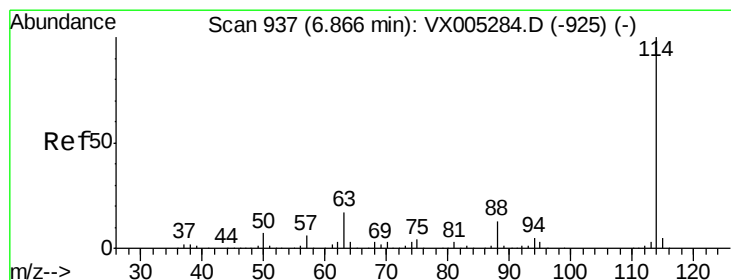
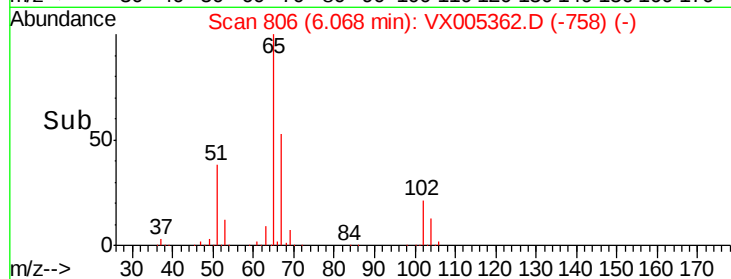
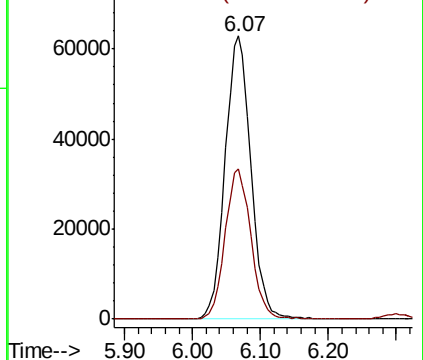
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Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

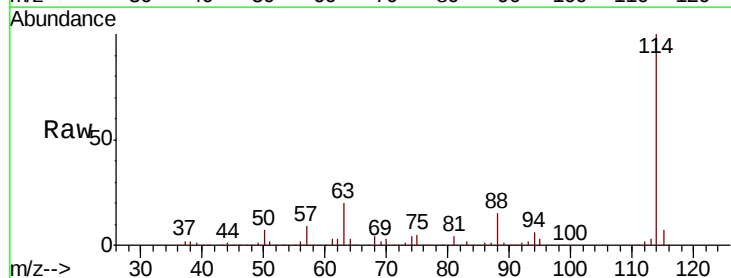
Tgt Ion: 114 Resp: 429780

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

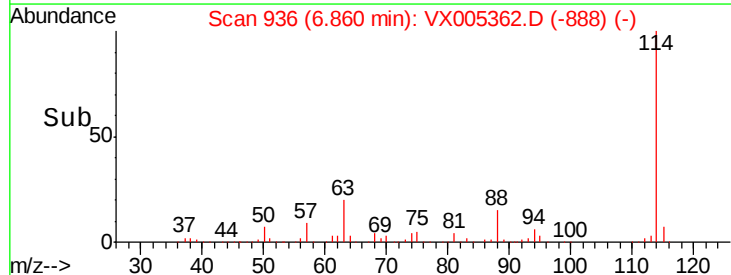
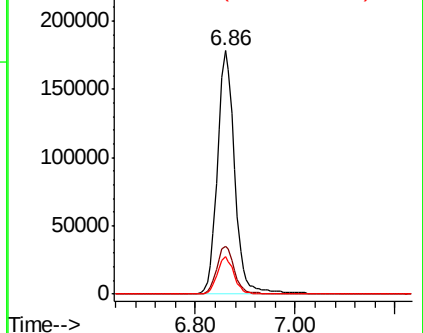
88 15.2 0.0 30.4

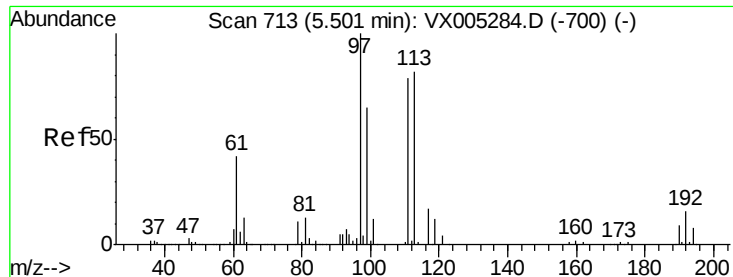


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.050 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

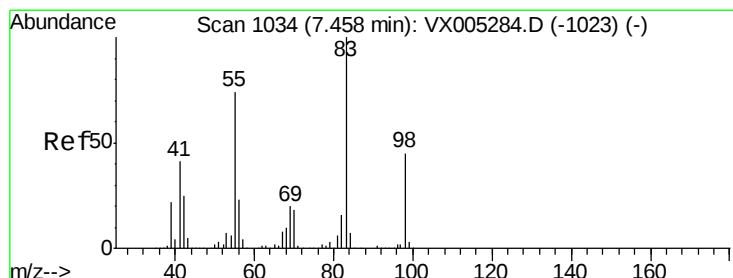
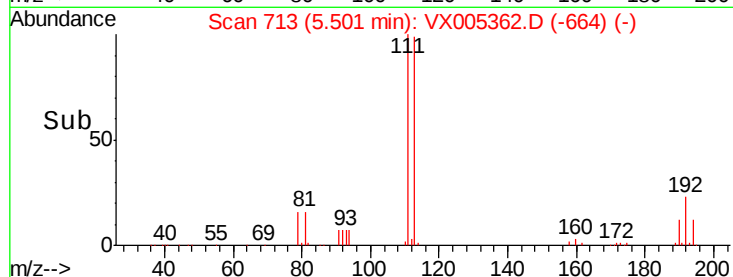
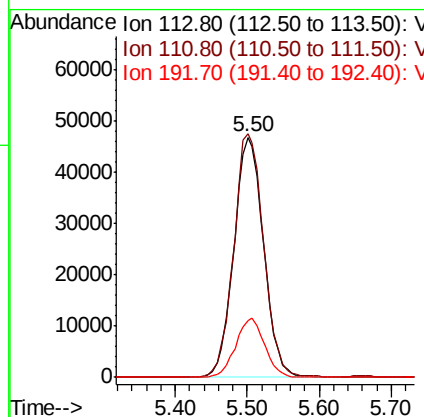
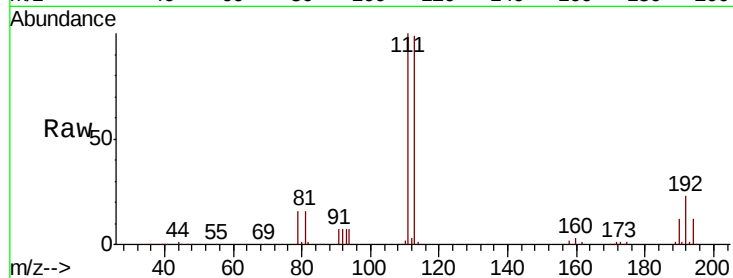
ClientSampleId :

TWP-04

Tot Ion:	113	Resp:	133930
Ion Ratio	Lower	Upper	
113	100		
111	102.2	82.4	123.6
192	24.0	19.4	29.2

Manual Integrations
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#39

Methylcyclohexane

Concen: 1.294 ug/l

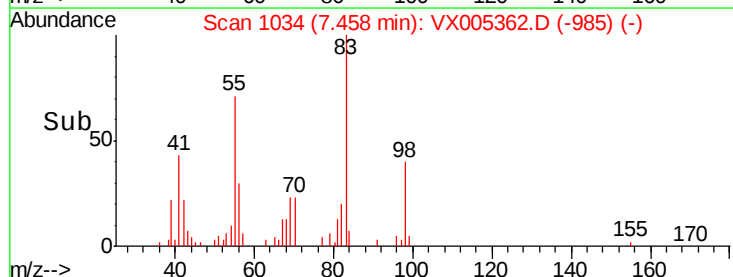
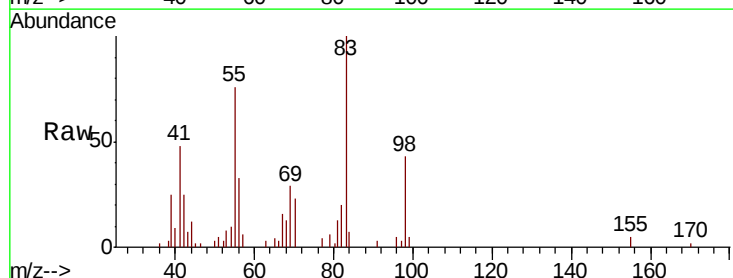
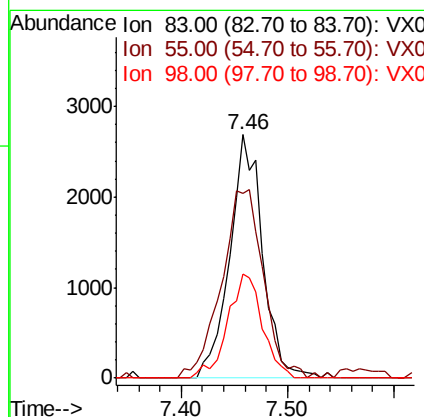
RT: 7.46 min Scan# 1034

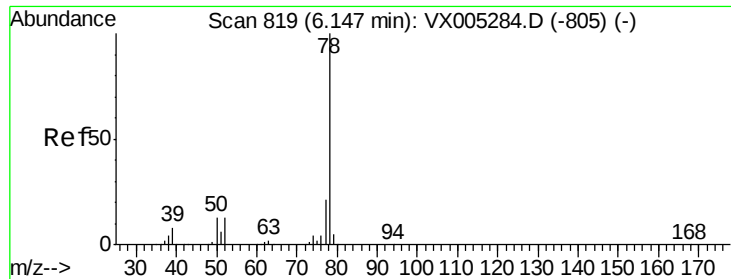
Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Tgt Ion:	83	Resp:	5828
Ion Ratio	Lower	Upper	
83	100		
55	73.0	61.0	91.4
98	42.8	39.6	59.4





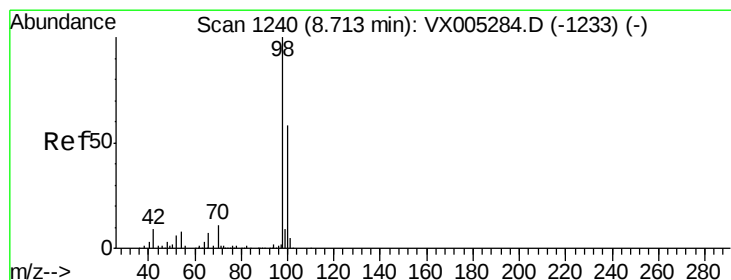
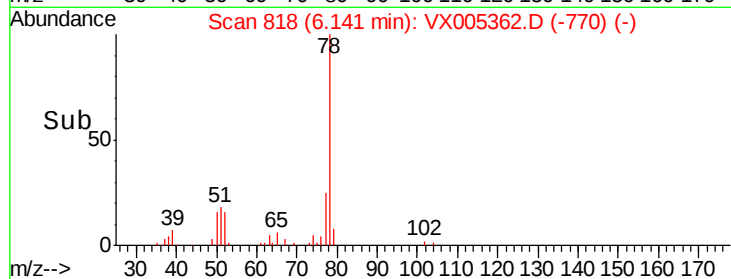
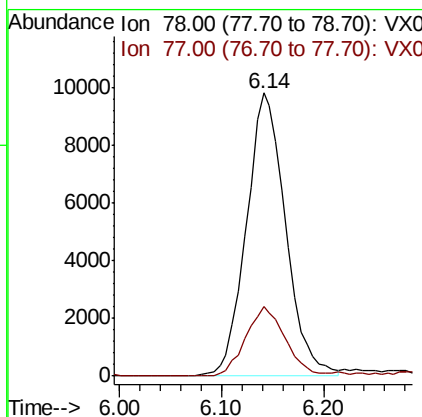
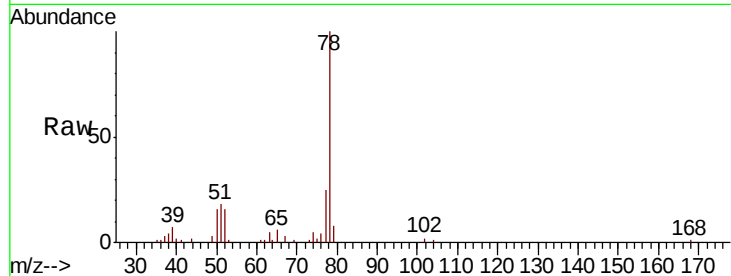
#40
Benzene
Concen: 2.107 ug/l
RT: 6.14 min Scan# 819
Delta R.T. -0.01 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Instrument :
MSVOA_X
ClientSampleId :
TWP-04

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4

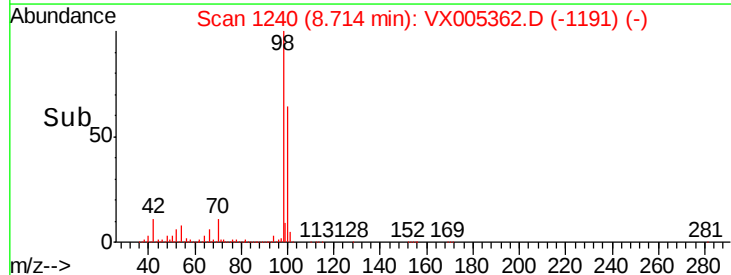
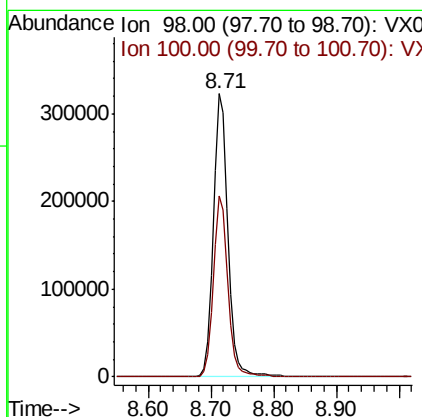
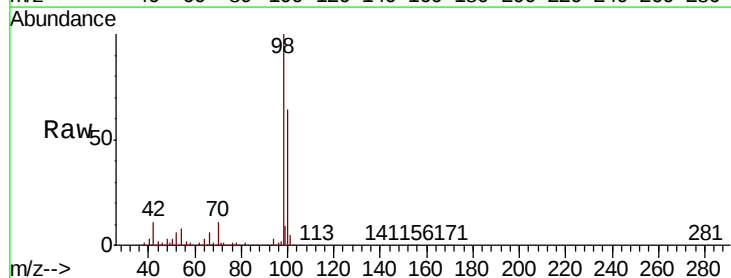
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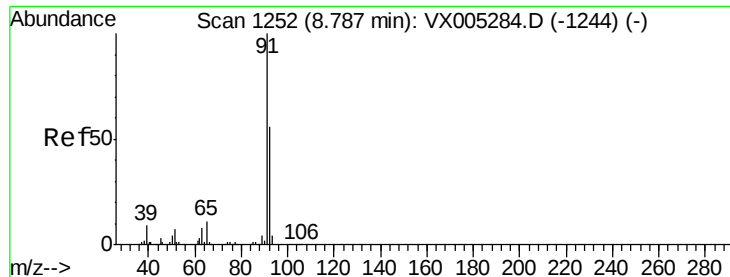
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#50
Toluene-d8
Concen: 53.094 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.9	79.3





#52

Toluene

Concen: 0.454 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

ClientSampleId :

TWP-04

Tot Ion: 92 Resp: 3100

Ion Ratio Lower Upper

92 100

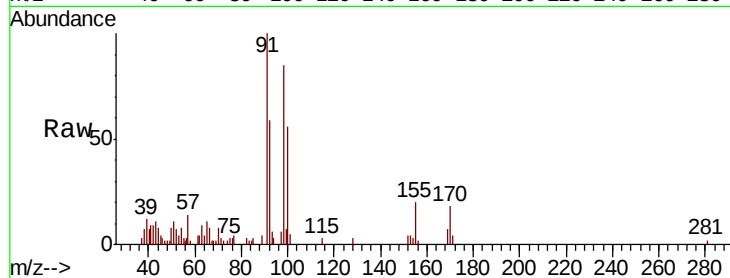
91 165.1 136.4 204.6

Manual Integrations

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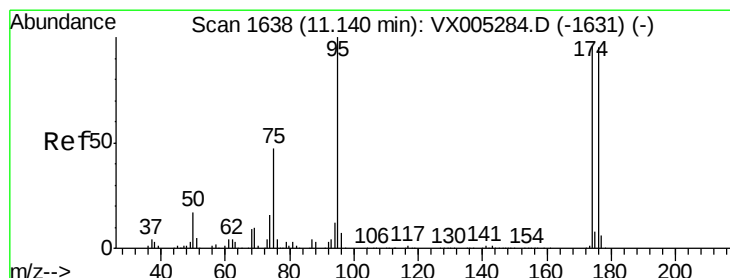
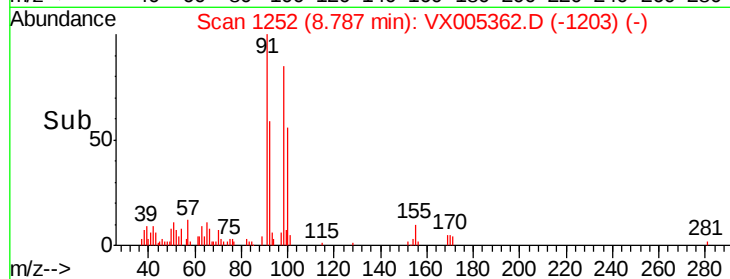
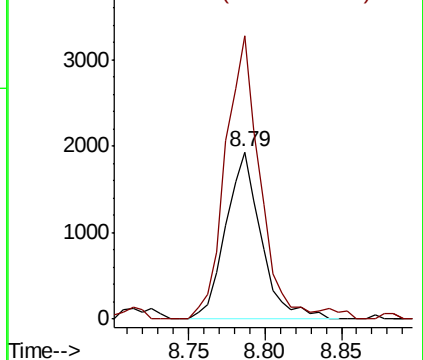
MMDadoda

10/17/2018 9:34:36 AM



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 50.547 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

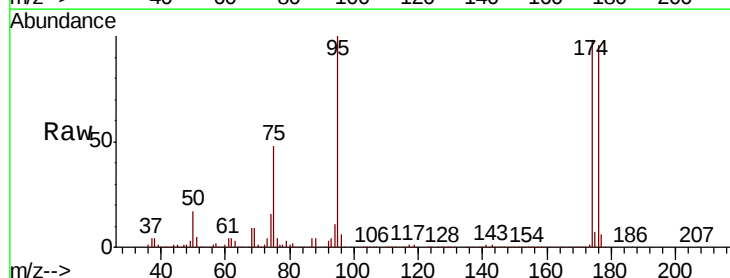
Tgt Ion: 95 Resp: 185563

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.2

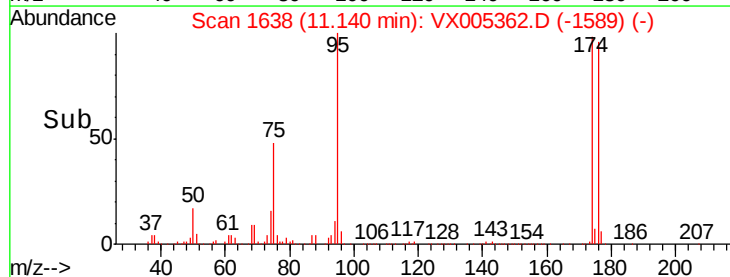
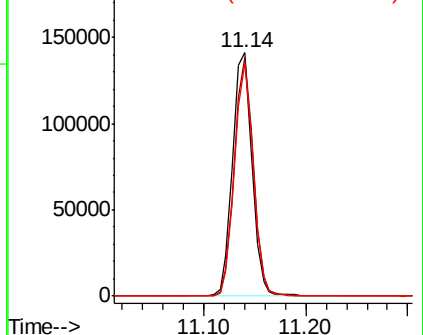
176 91.8 0.0 178.6

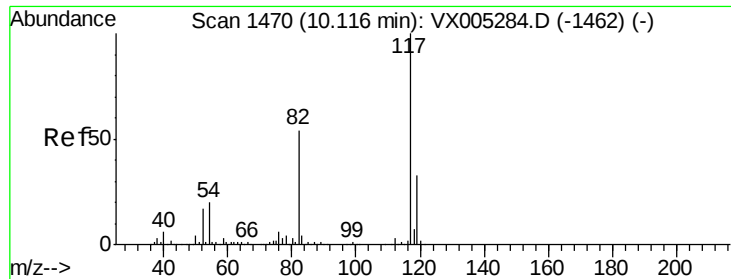


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





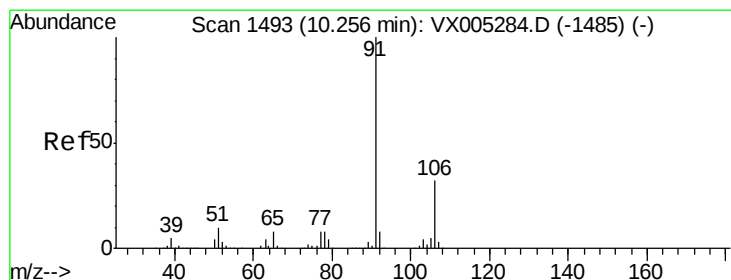
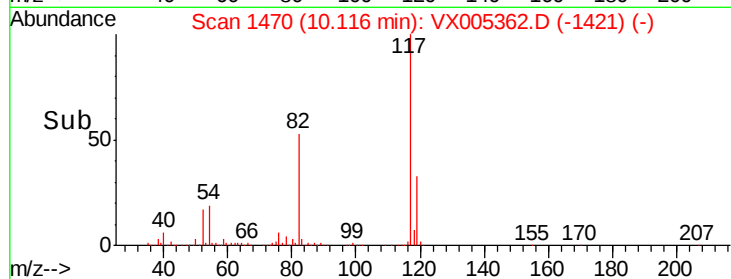
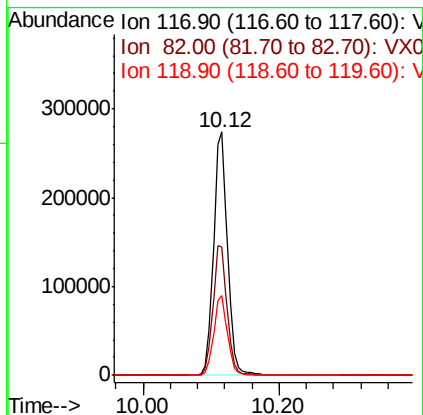
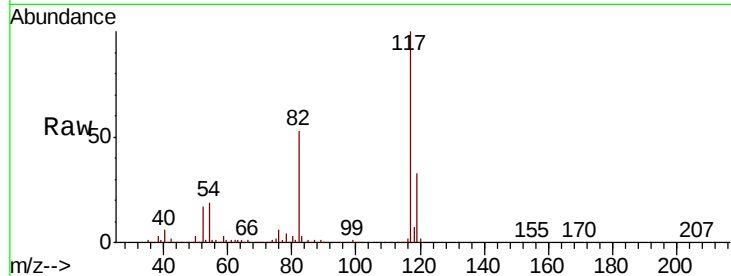
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Instrument :
MSVOA_X
ClientSampleId :
TWP-04

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	47.8	71.6
119	32.7	29.3	43.9

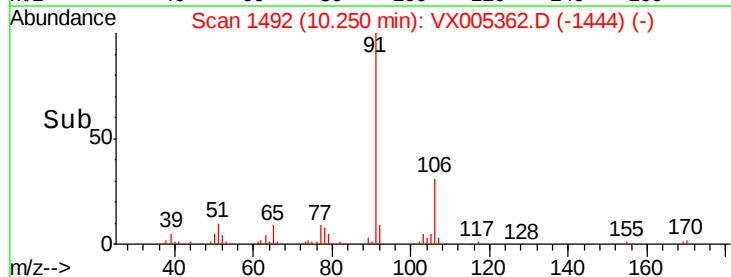
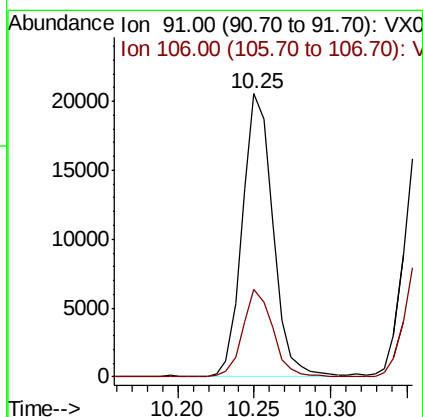
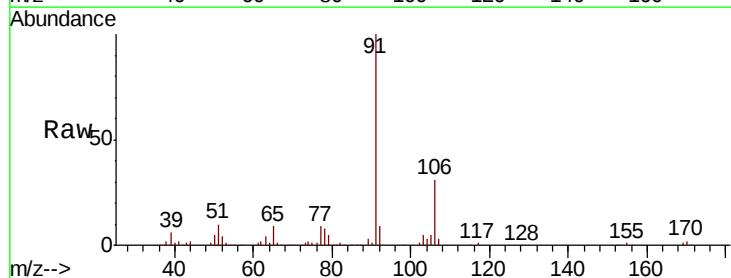
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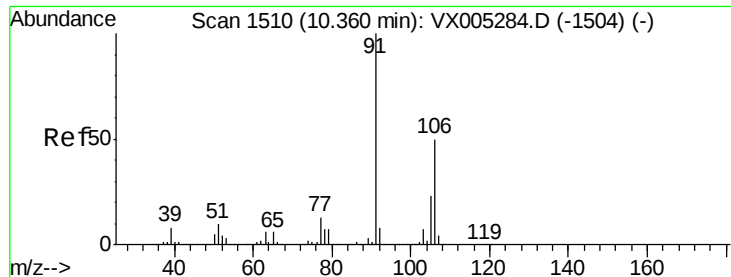
MMDadoda
10/17/2018 9:34:36 AM



#67
Ethyl Benzene
Concen: 2.096 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.9	38.9





#68

m/p-Xylenes

Concen: 2.513 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

ClientSampled :

TWP-04

Tot Ion:106 Resp: 13143

Ion Ratio Lower Upper

106 100

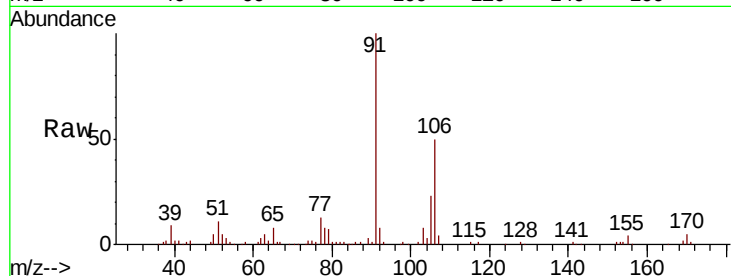
91 193.1 157.1 235.7

Manual Integrations

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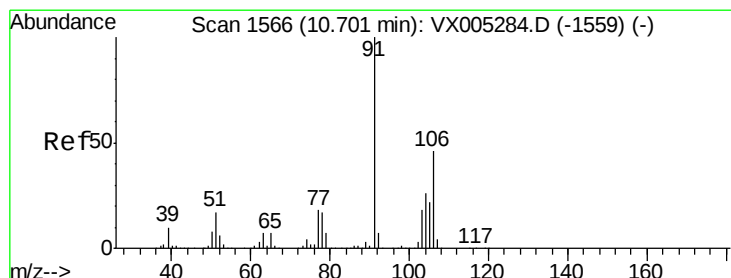
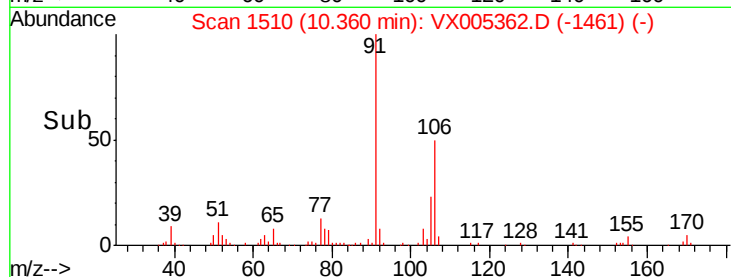
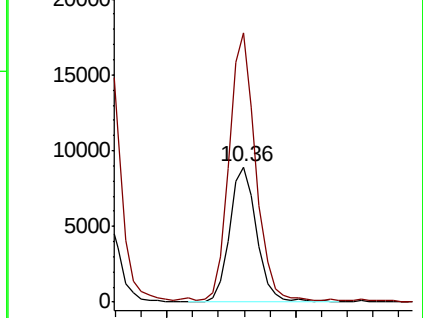
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 1.007 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VX005362.D

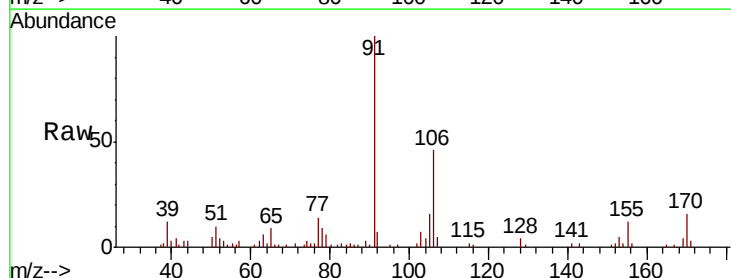
Acq: 16 Oct 2018 11:26

Tgt Ion:106 Resp: 5081

Ion Ratio Lower Upper

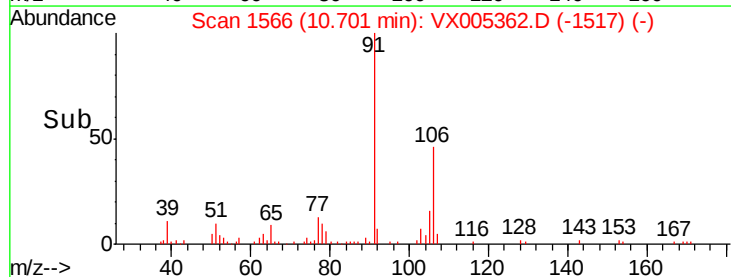
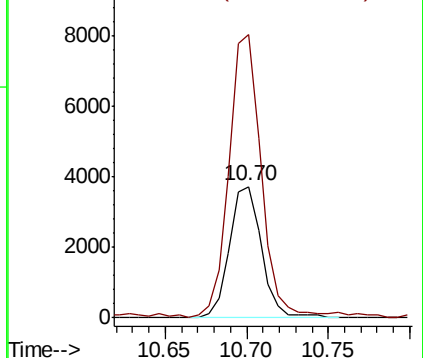
106 100

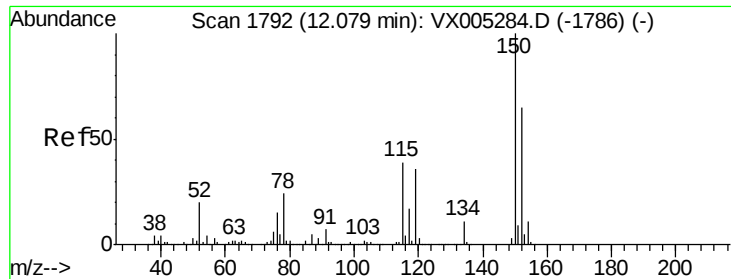
91 217.4 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005362.D

Acq: 16 Oct 2018 11:26

Instrument :

MSVOA_X

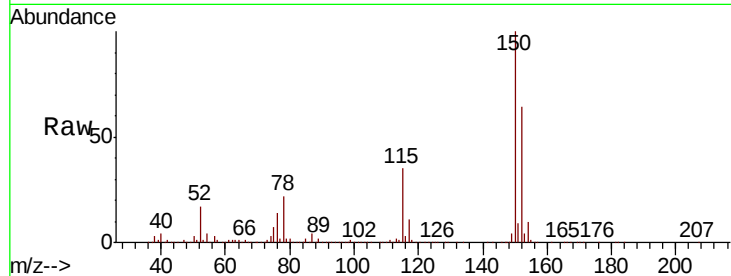
ClientSampleId :

TWP-04

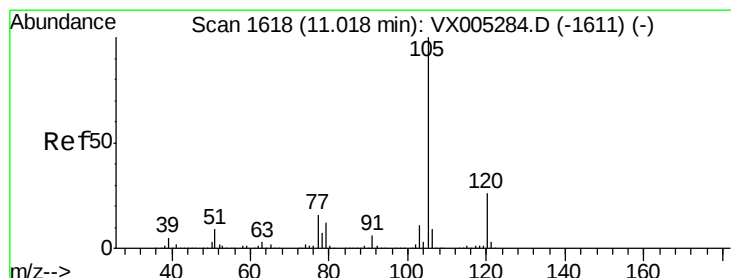
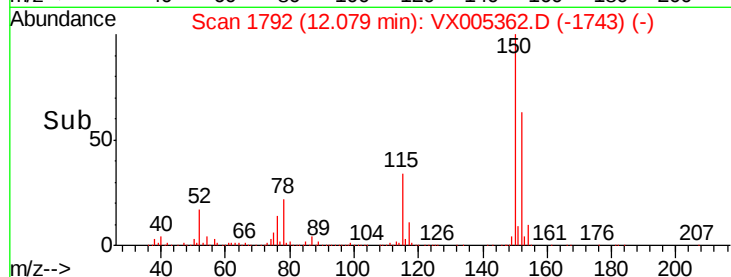
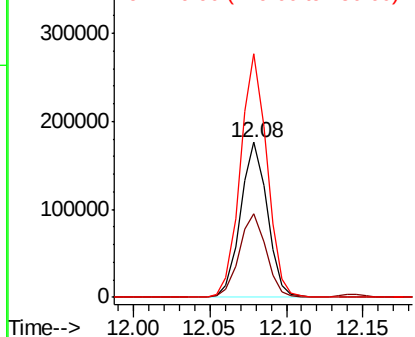
Tot Ion:	152	Resp:	212287
Ion Ratio	Lower	Upper	
152	100		
115	54.1	39.0	117.0
150	156.6	0.0	351.0

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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: 4.318 ug/l

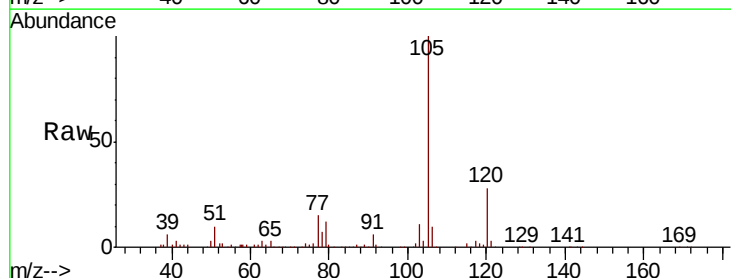
RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

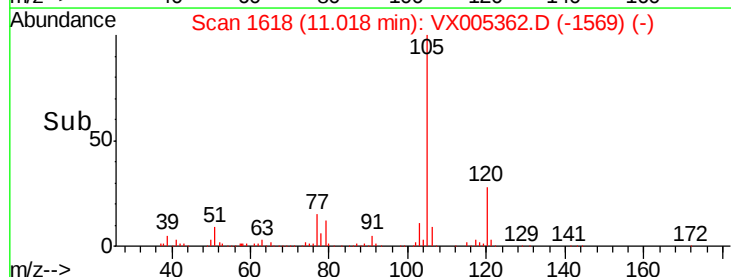
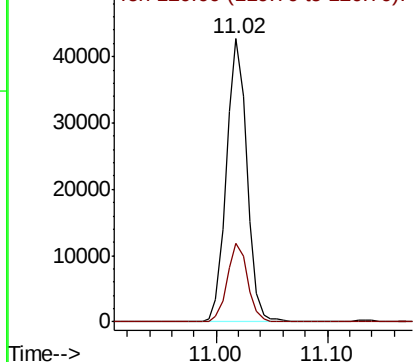
Lab File: VX005362.D

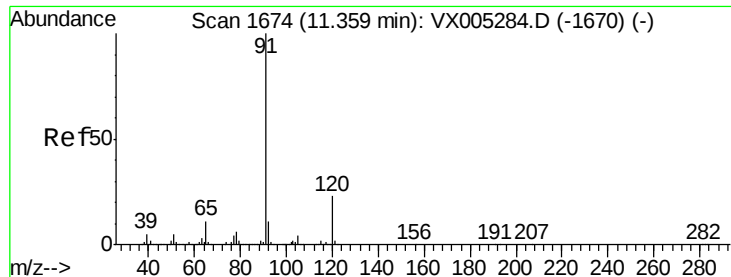
Acq: 16 Oct 2018 11:26

Tgt Ion:	105	Resp:	54487
Ion Ratio	Lower	Upper	
105	100		
120	27.3	13.5	40.4



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





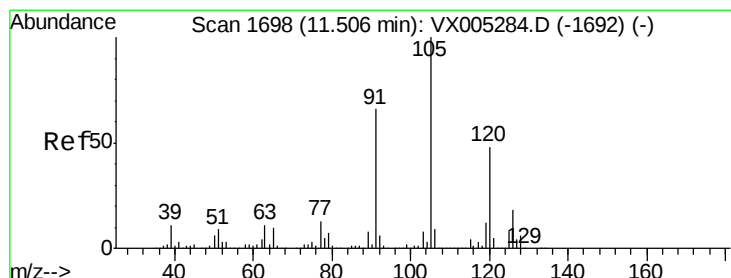
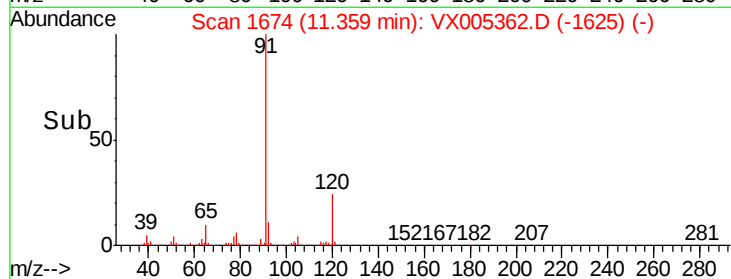
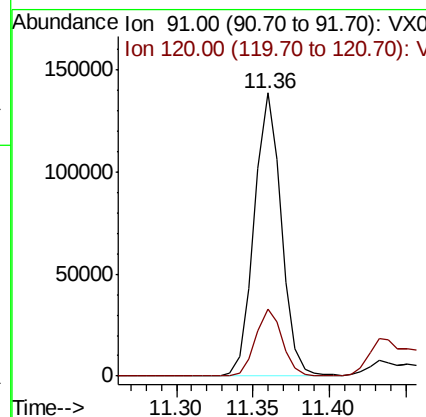
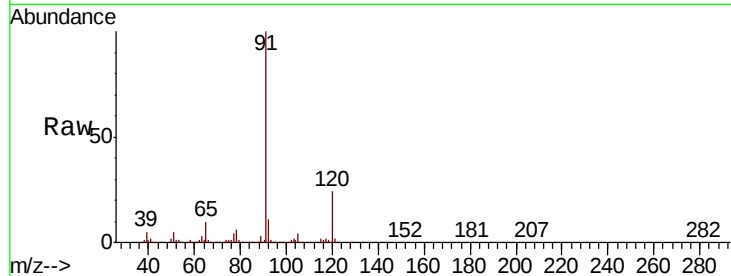
#78
n-propylbenzene
Concen: 11.778 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Instrument :
MSVOA_X
ClientSampleId :
TWP-04

Tot Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.9	35.9

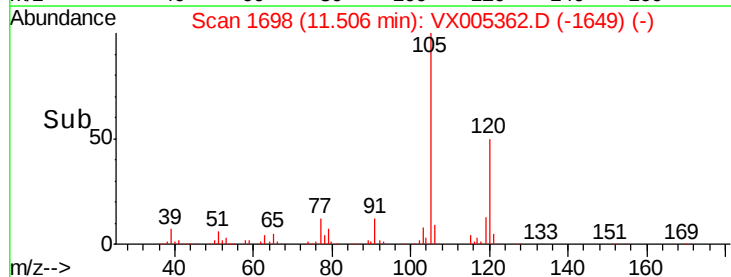
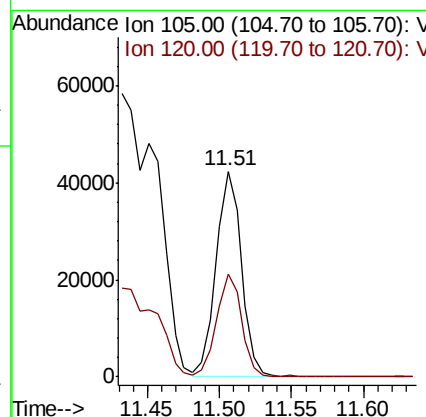
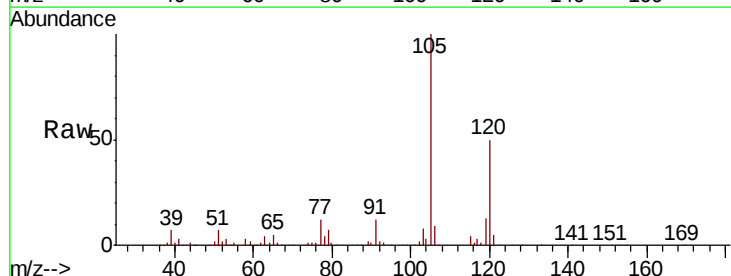
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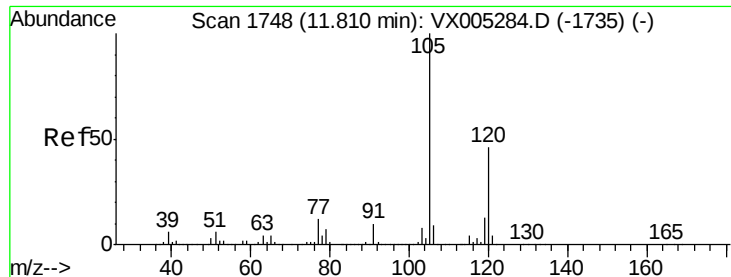
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#80
1,3,5-Trimethylbenzene
Concen: 4.822 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.6	25.6	76.8





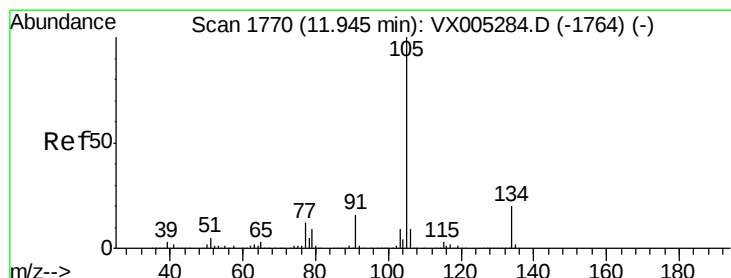
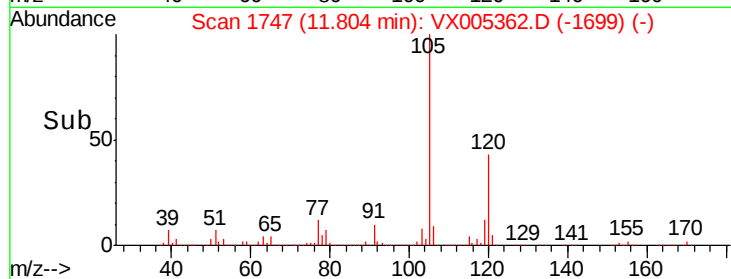
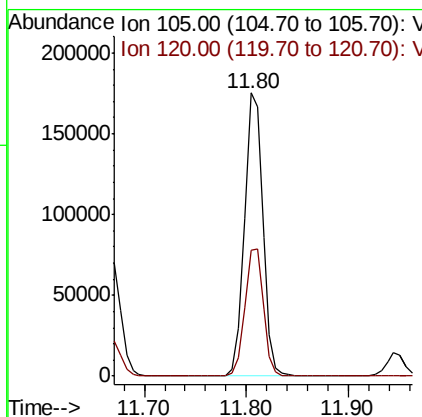
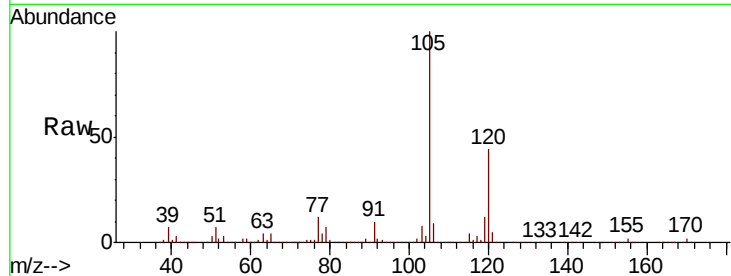
#84
 1,2,4-Trimethylbenzene
 Concen: 19.611 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.01 min
 Lab File: VX005362.D
 Acq: 16 Oct 2018 11:26

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP-04

Tot Ion	Ratio	Resp	Lower	Upper
105	100	218098		
120	45.4	23.2	69.6	

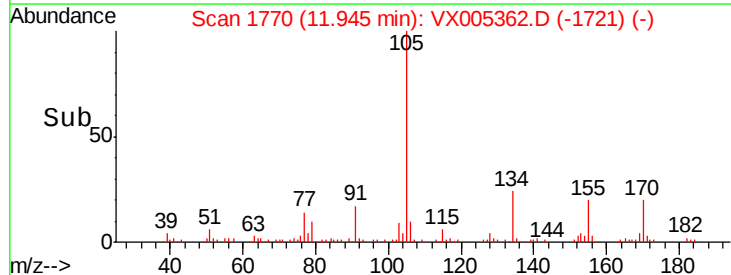
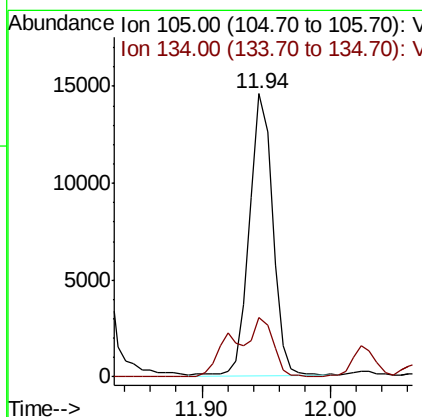
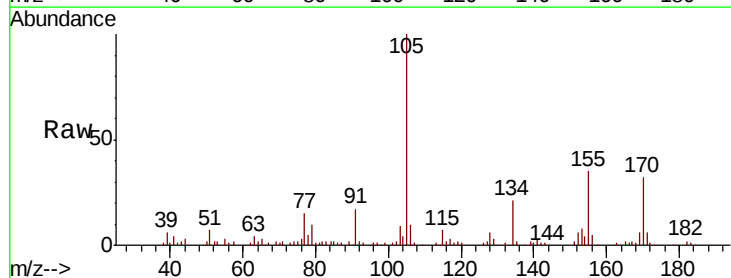
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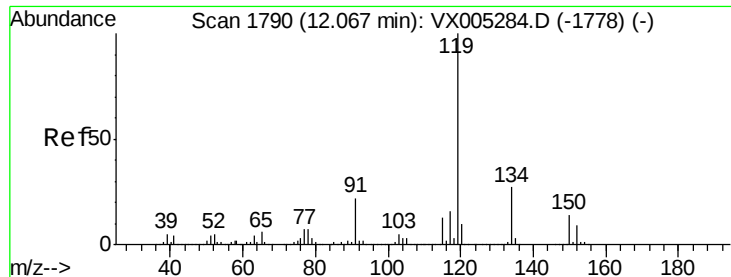
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#85
 sec-Butylbenzene
 Concen: 1.398 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX005362.D
 Acq: 16 Oct 2018 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	18103		
134	19.5	10.5	31.5	





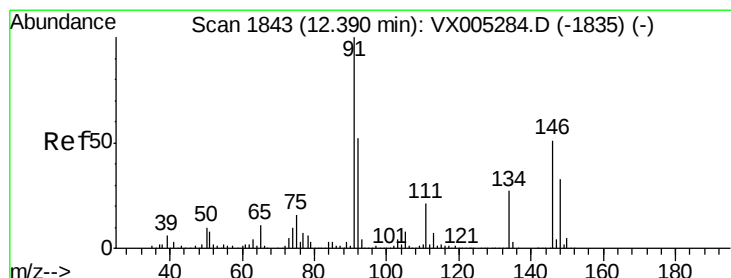
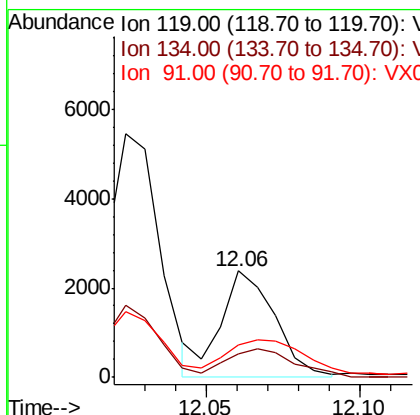
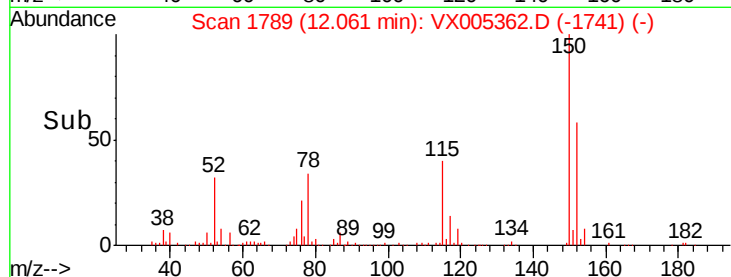
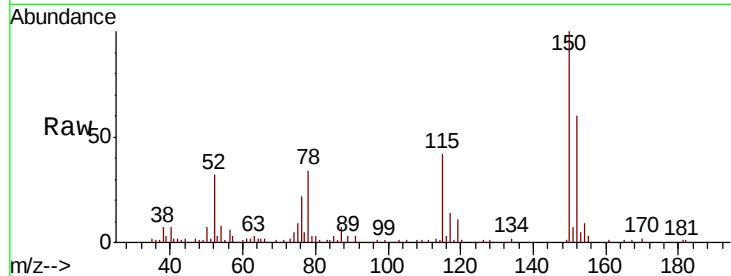
#86
p-Isopropyltoluene
Concen: 0.250 ug/l m
RT: 12.06 min Scan# 1789
Delta R.T. -0.01 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Instrument :
MSVOA_X
ClientSampled :
TWP-04

Tot Ion	Ratio	Resp	Lower	Upper
119	100	2923		
134	67.7		13.4	40.2#
91	63.3		10.9	32.7#

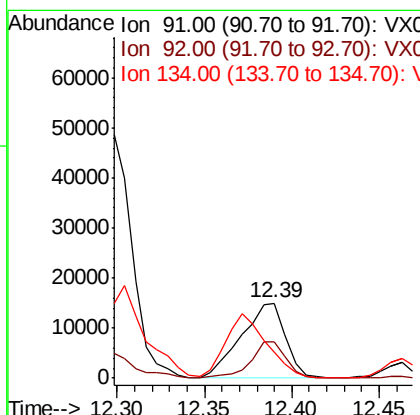
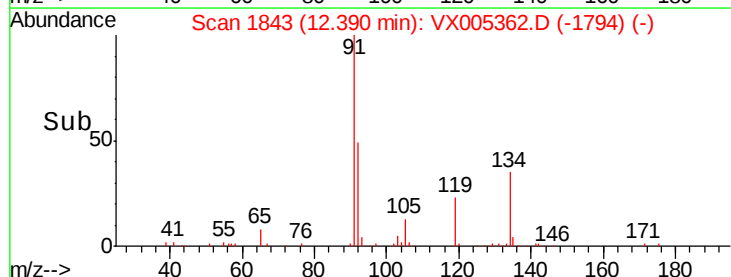
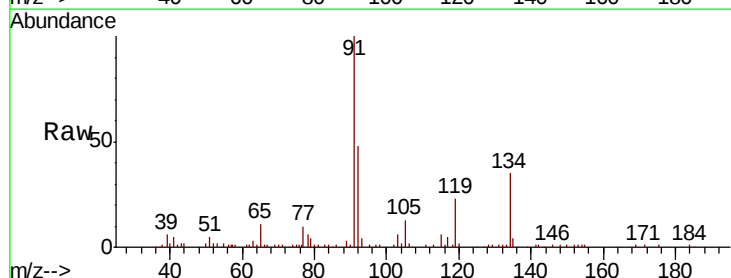
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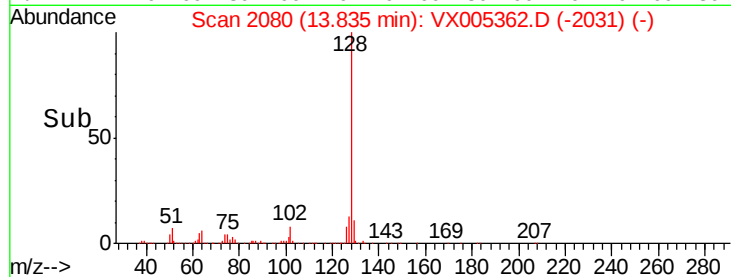
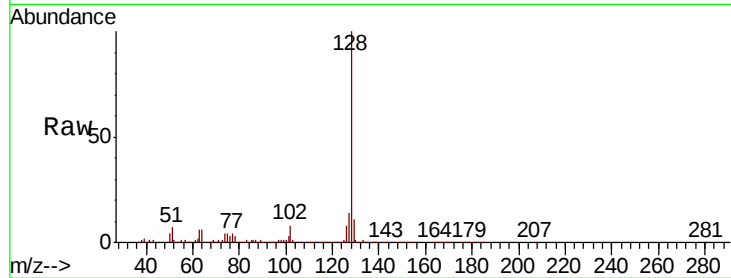
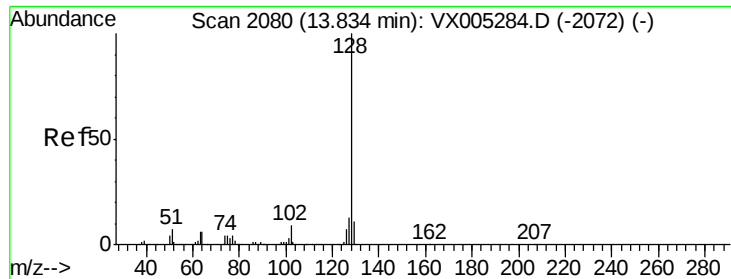
MMDadoda
10/17/2018 9:34:36 AM



#89
n-Butylbenzene
Concen: 2.442 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	25959		
92	38.6		27.3	81.9
134	80.4		13.6	40.7#





#95
Naphthalene
Concen: 6.034 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005362.D
Acq: 16 Oct 2018 11:26

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.0	10.2	15.2
129	12.0	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
TWP-04

Manual Integrations
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