

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX111618\
 Data File : VX006047.D
 Acq On : 16 Nov 2018 14:02
 Operator : JC/MD
 Sample : J5934-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0145

Manual Integrations
 APPROVED

MMDadoda
 11/19/2018 12:22:35 PM

Quant Time: Nov 17 01:29:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	144708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	202752	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	198724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106638	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	78256	47.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.08%	
35) Dibromofluoromethane	5.51	113	64059	46.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.90%	
50) Toluene-d8	8.72	98	226642	49.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.13	95	95632	58.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	116.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	2328	4.885	ug/l	99
16) Acetone	2.45	43	4989	5.570	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	6198	4.594	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	2043	1.371	ug/l	97
29) Tetrahydrofuran	5.16	42	4819	5.330	ug/l	98
31) Cyclohexane	5.58	56	20254	8.739	ug/l	93
39) Methylcyclohexane	7.46	83	6972	3.519	ug/l	93
40) Benzene	6.14	78	743219	130.434	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	2541	1.083	ug/l	100
65) Chlorobenzene	10.15	112	5614765	1410.364	ug/l	91
67) Ethyl Benzene	10.25	91	443106	69.412	ug/l	99
68) m/p-Xylenes	10.36	106	10452	4.292	ug/l	99
69) o-Xylene	10.69	106	7951	3.641	ug/l	96
73) Isopropylbenzene	11.02	105	53174	8.623	ug/l	95
78) n-propylbenzene	11.36	91	54063	7.439	ug/l	99
79) 2-Chlorotoluene	11.42	91	6287	1.431	ug/l	90
80) 1,3,5-Trimethylbenzene	11.51	105	12371	2.361	ug/l	98
83) tert-Butylbenzene	11.77	119	3110	0.587	ug/l	80
84) 1,2,4-Trimethylbenzene	11.81	105	88377	15.198	ug/l	98
85) sec-Butylbenzene	11.94	105	13137	2.026	ug/l	86
86) p-Isopropyltoluene	12.07	119	3067m	0.534	ug/l	
87) 1,3-Dichlorobenzene	12.02	146	24443	7.327	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	78690	23.044	ug/l	98
91) 1,2-Dichlorobenzene	12.39	146	3923	1.174	ug/l	96
95) Naphthalene	13.83	128	114832	15.793	ug/l	99

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

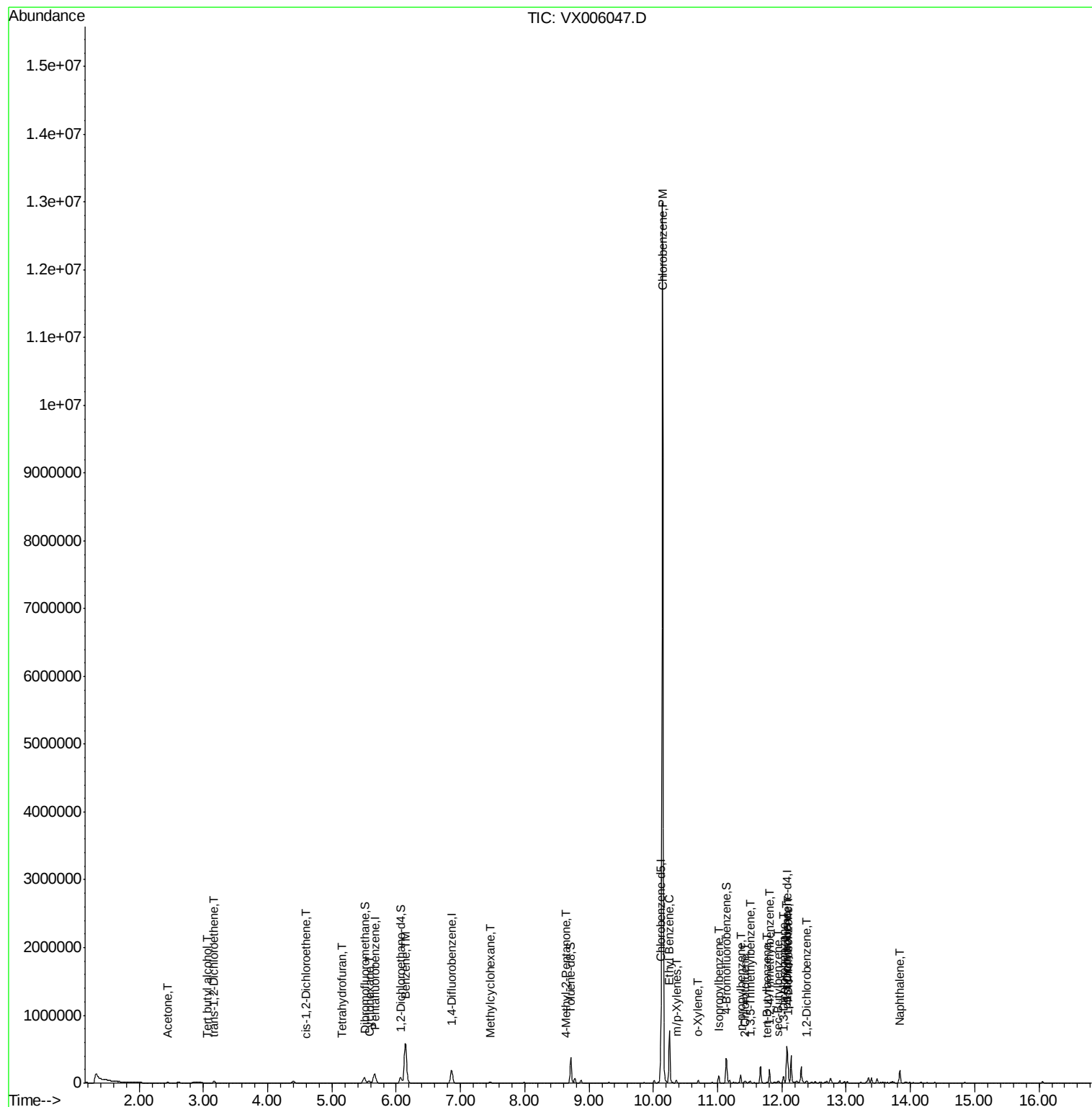
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111618\
Data File : VX006047.D
Acq On : 16 Nov 2018 14:02
Operator : JC/MD
Sample : J5934-09
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

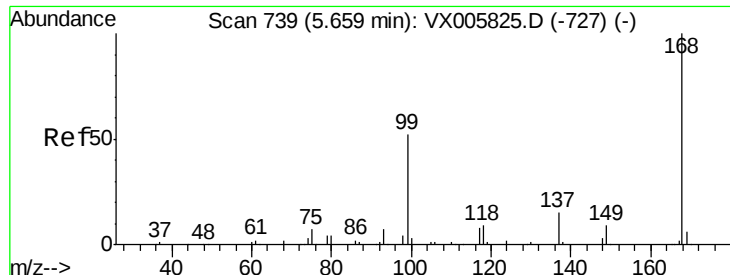
Instrument :
MSVOA_X
ClientSampleId :
S36-0145

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Quant Time: Nov 17 01:29:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Instrument :

MSVOA_X

ClientSampled :

S36-0145

Tot Ion:168 Resp: 144708

Ion Ratio Lower Upper

168 100

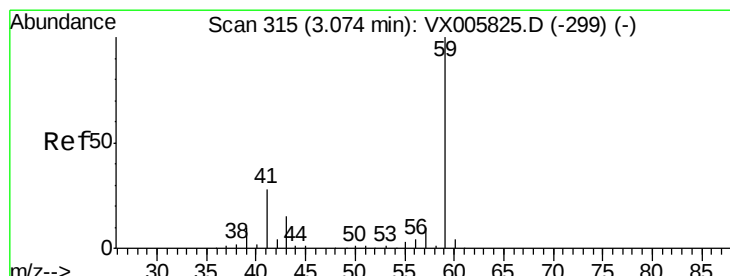
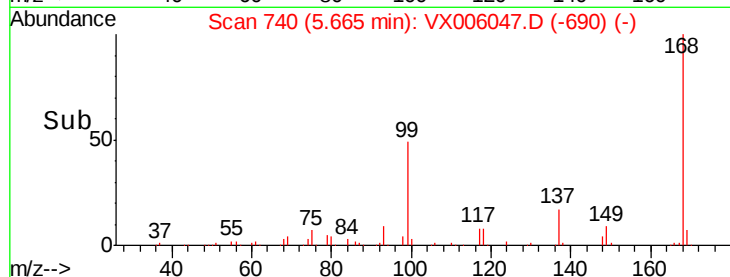
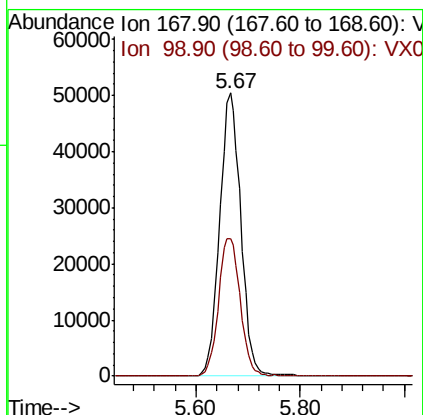
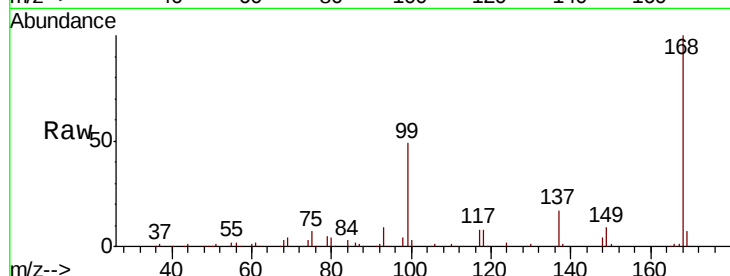
99 48.7 40.7 61.1

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#11

Tert butyl alcohol

Concen: 4.885 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006047.D

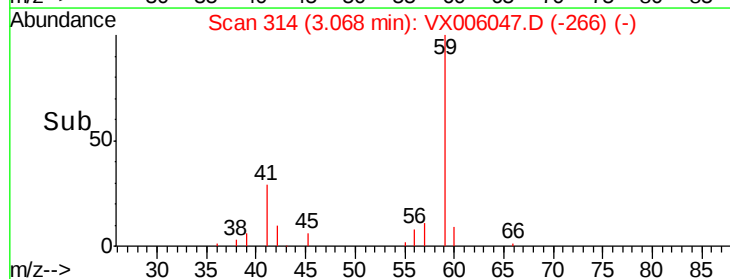
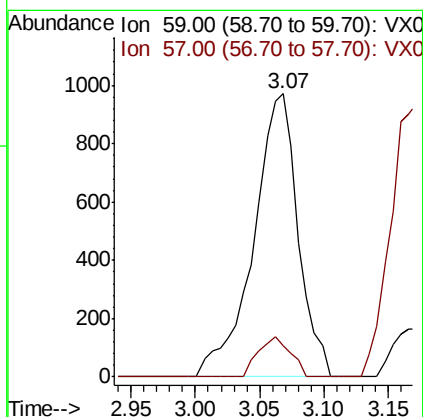
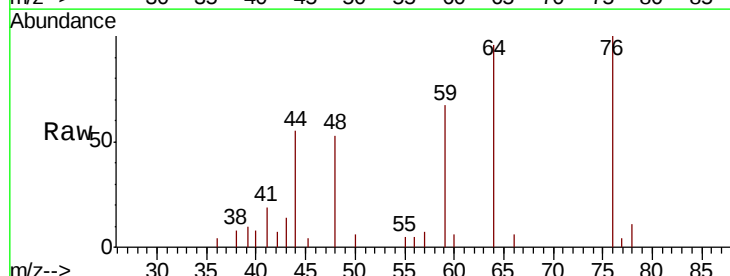
Acq: 16 Nov 2018 14:02

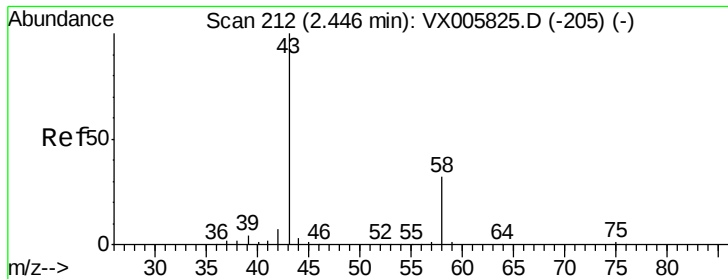
Tgt Ion: 59 Resp: 2328

Ion Ratio Lower Upper

59 100

57 10.1 8.5 12.7





#16

Acetone

Concen: 5.570 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Instrument :

MSVOA_X

ClientSampled :

S36-0145

Tot Ion: 43 Resp: 4989

Ion Ratio Lower Upper

43 100

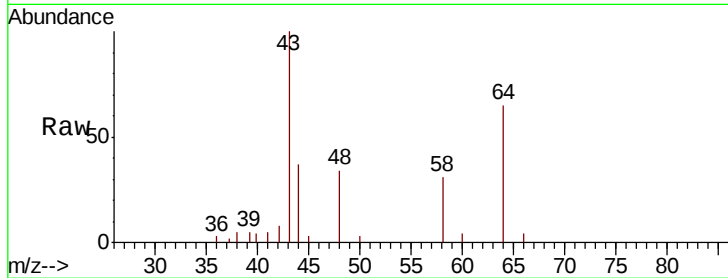
58 31.0 23.8 35.6

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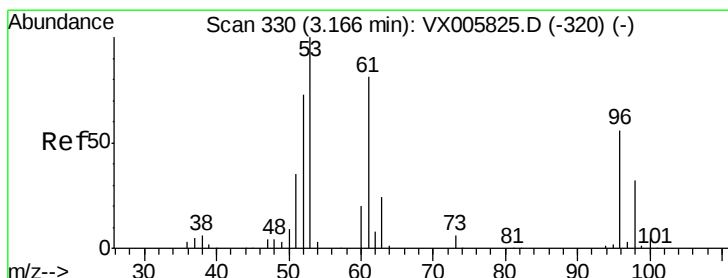
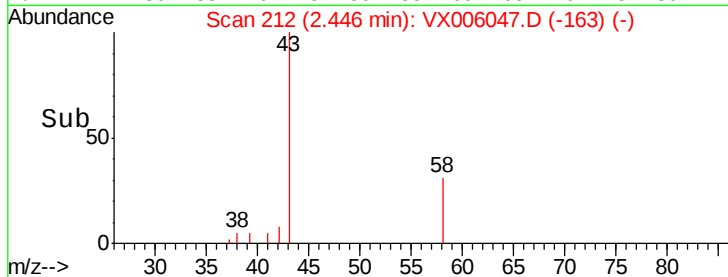
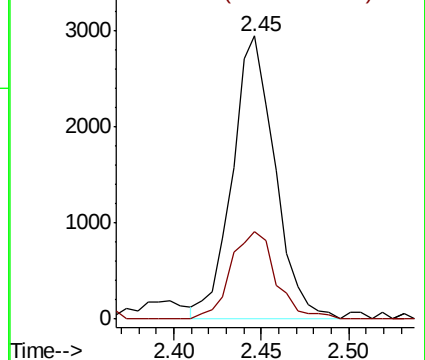
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 4.594 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

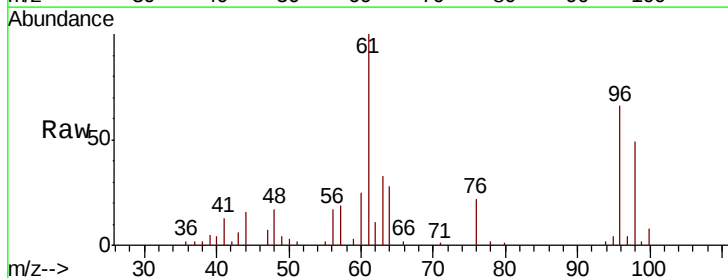
Tgt Ion: 96 Resp: 6198

Ion Ratio Lower Upper

96 100

61 150.5 115.6 173.4

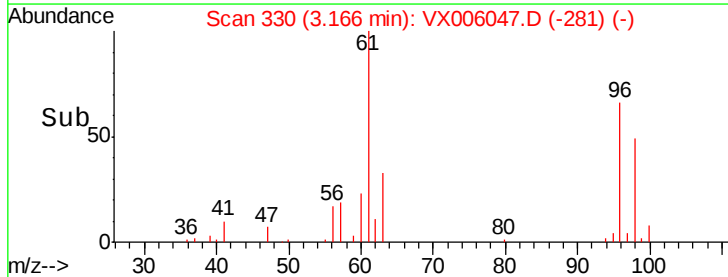
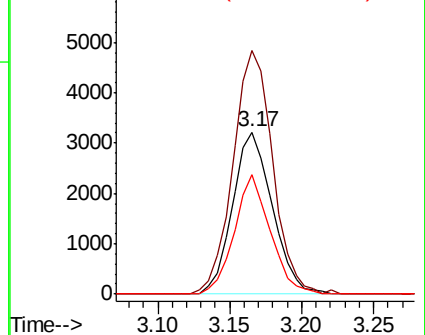
98 74.1 50.2 75.2

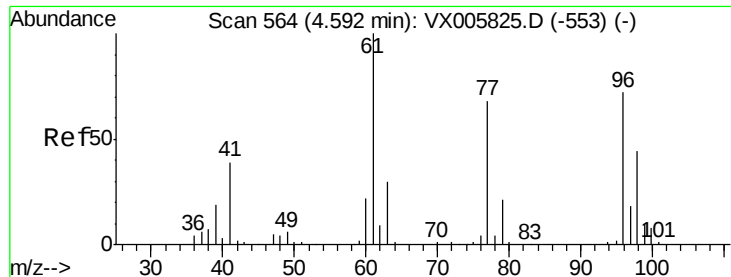


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#27

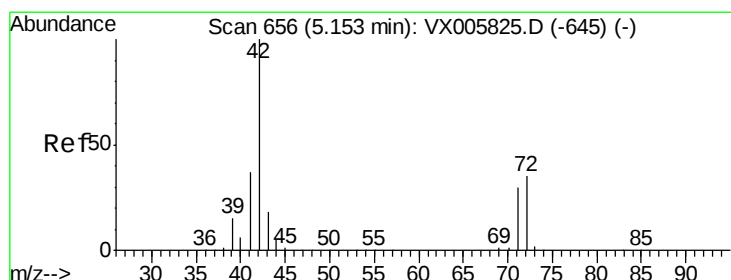
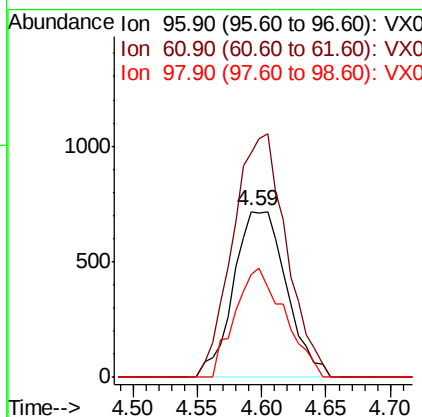
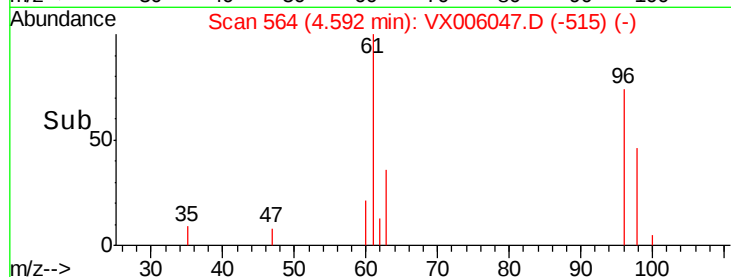
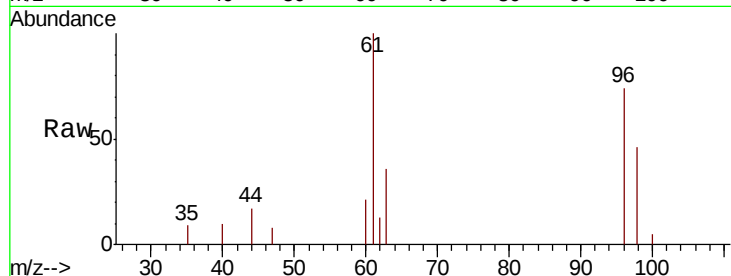
cis-1,2-Dichloroethene
Concen: 1.371 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampled :
S36-0145

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	304.6
98	62.3	0.0	127.4

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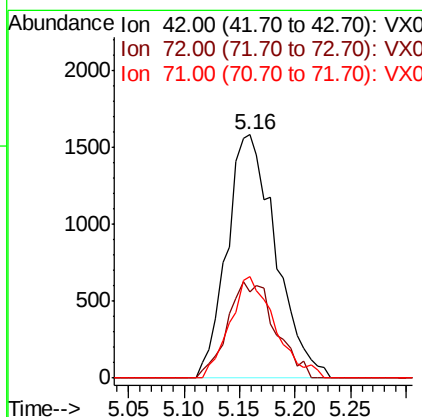
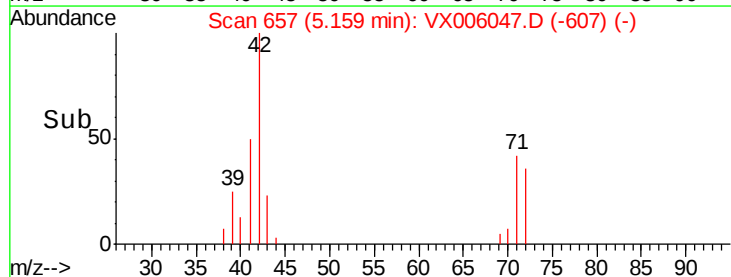
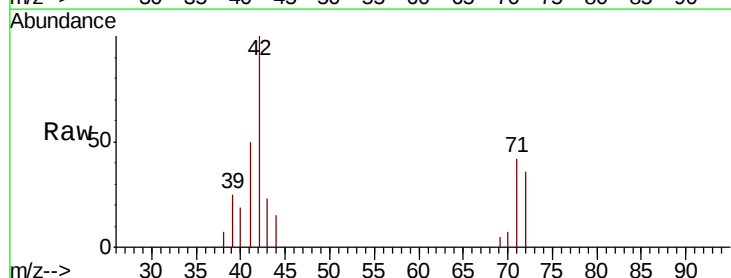
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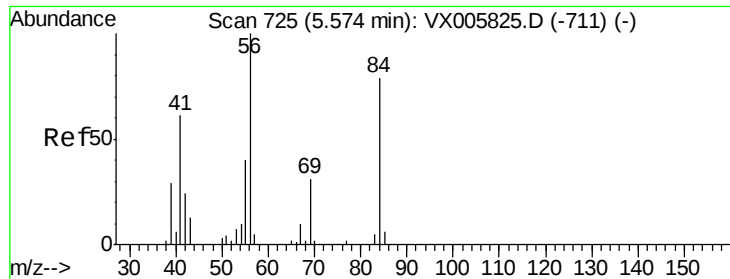


#29

Tetrahydrofuran
Concen: 5.330 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	38.6	32.0	48.0
71	38.3	29.8	44.8





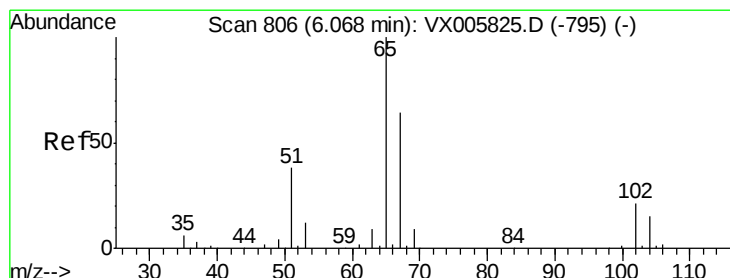
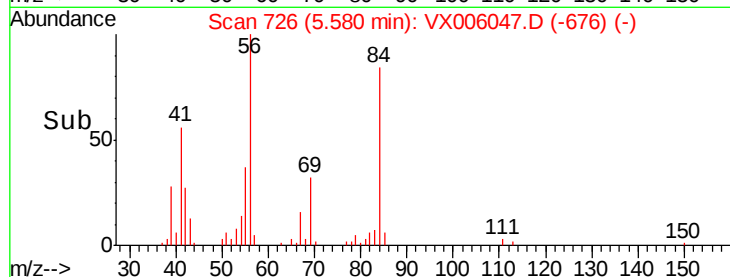
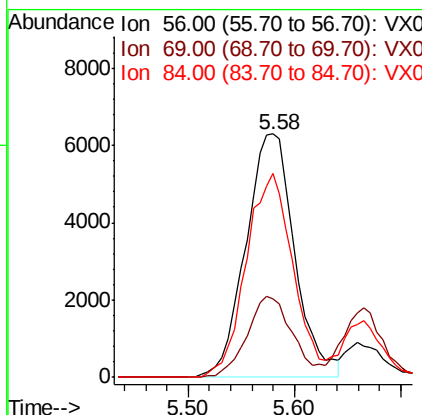
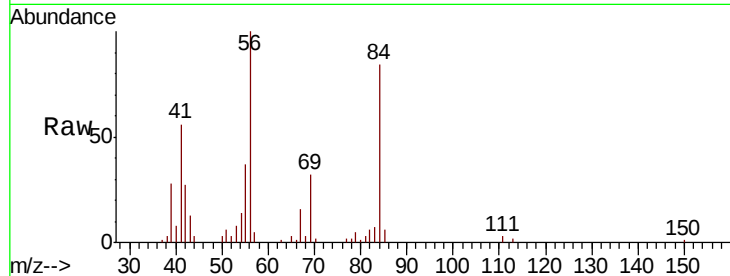
#31
Cyclohexane
Concen: 8.739 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	22.6	34.0
84	83.7	62.7	94.1

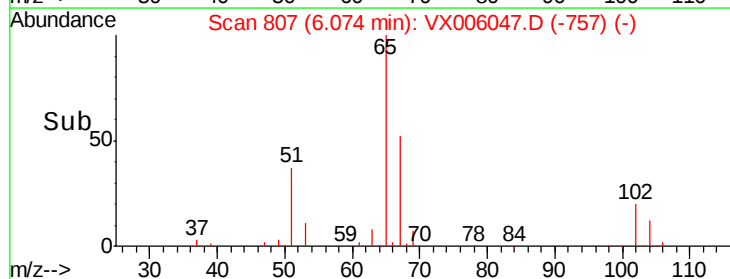
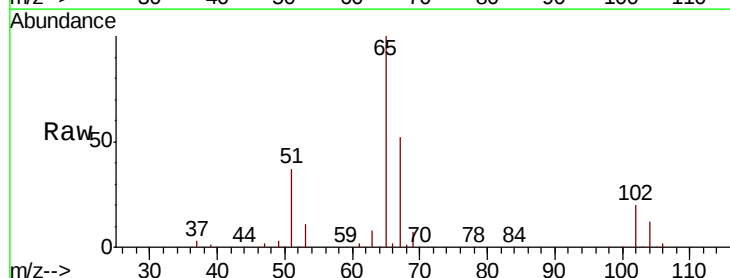
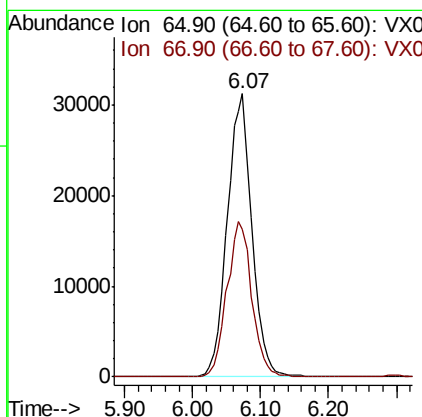
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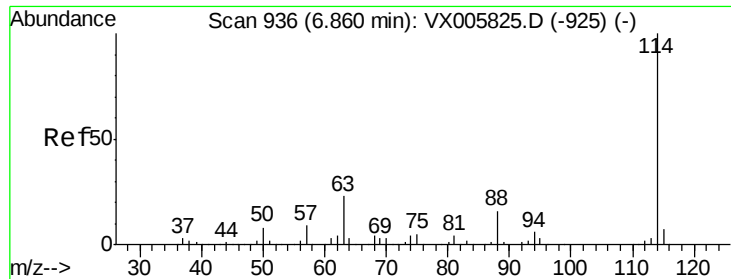
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#33
1,2-Dichloroethane-d4
Concen: 47.040 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	105.0





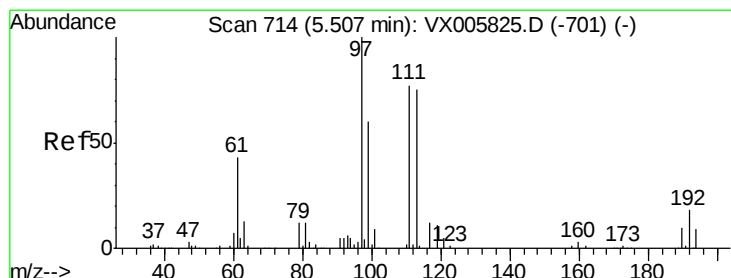
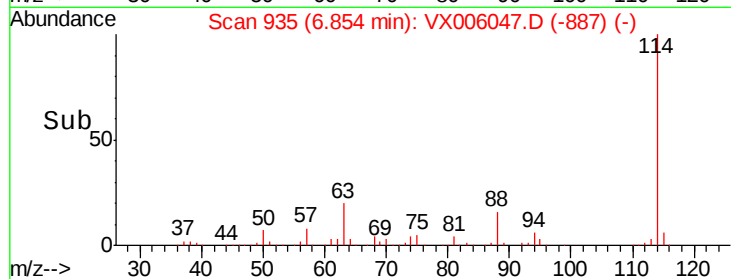
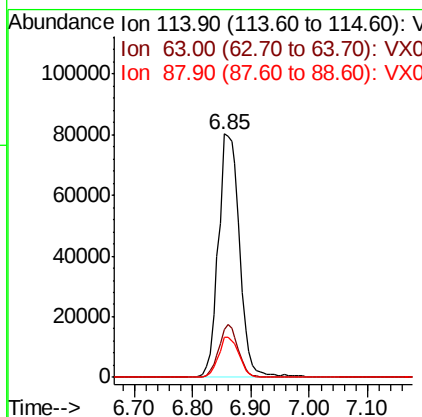
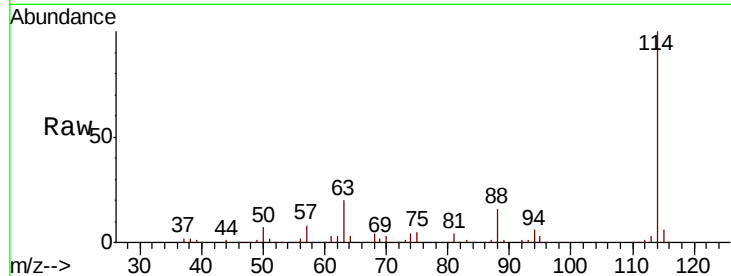
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampled :
S36-0145

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	19.6	0.0	42.8
88	16.4	0.0	31.2

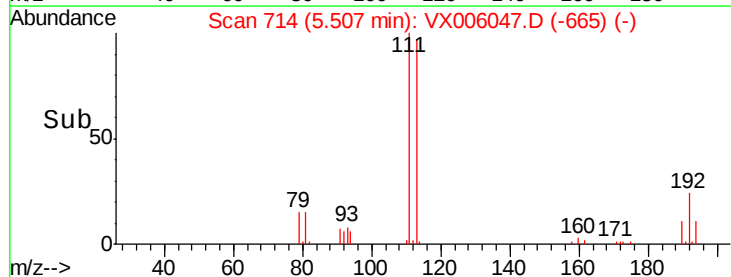
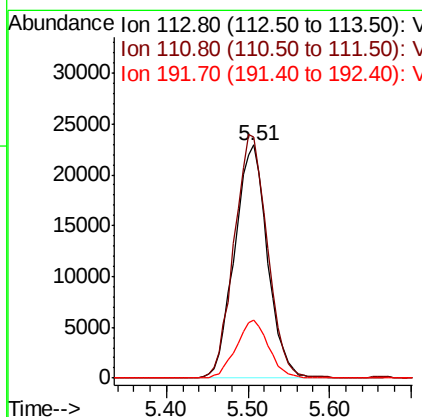
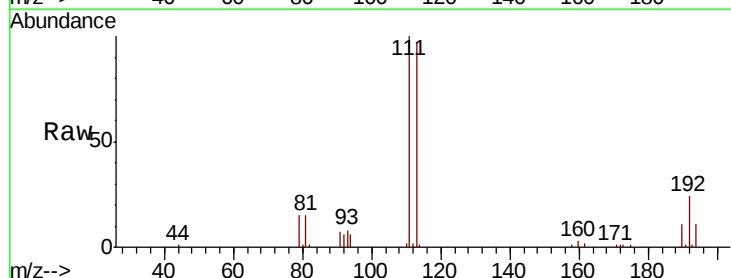
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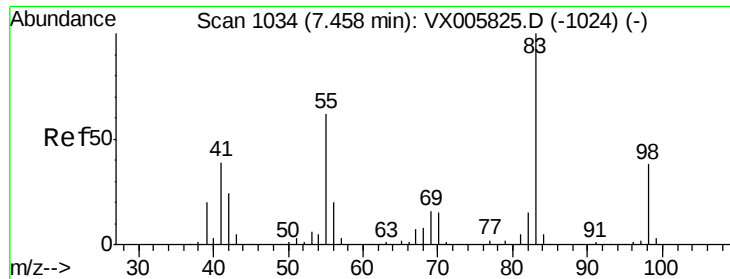
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#35
Dibromofluoromethane
Concen: 46.453 ug/l
RT: 5.51 min Scan# 714
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	105.5	82.3	123.5
192	24.4	17.9	26.9





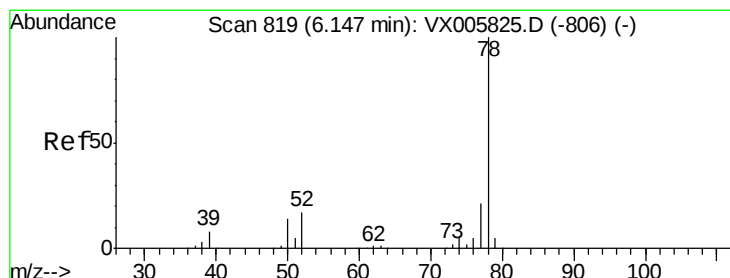
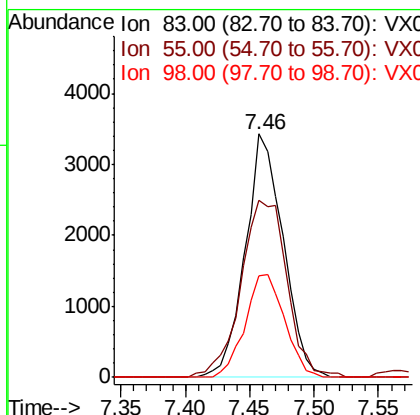
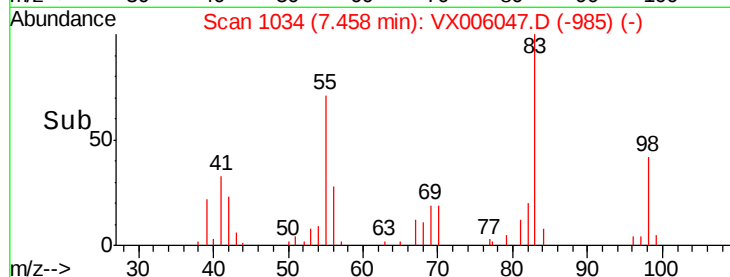
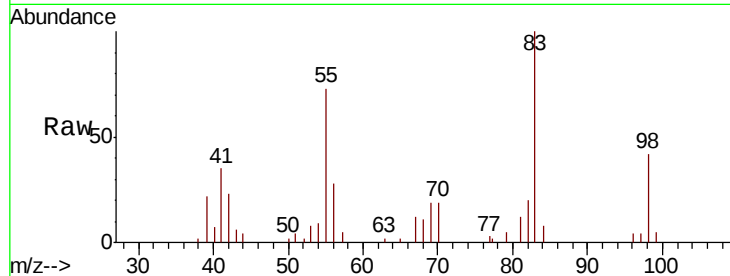
#39
Methvlcvclohexane
Concen: 3.519 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.9	63.7	95.5
98	41.5	36.2	54.2

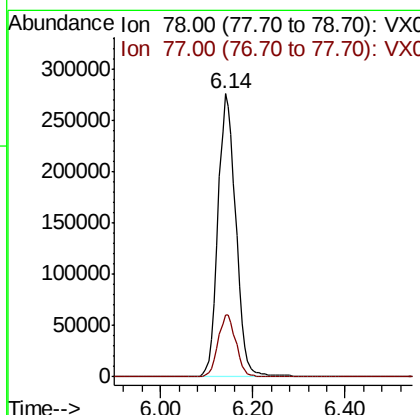
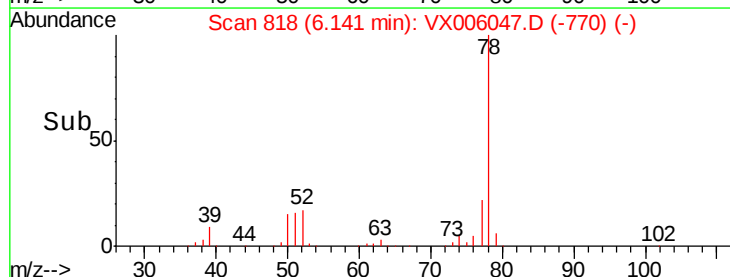
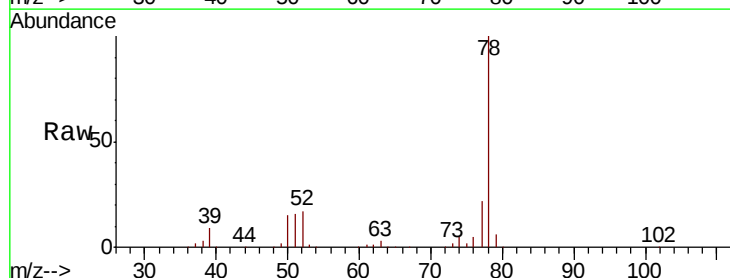
Manual Integrations
APPROVED

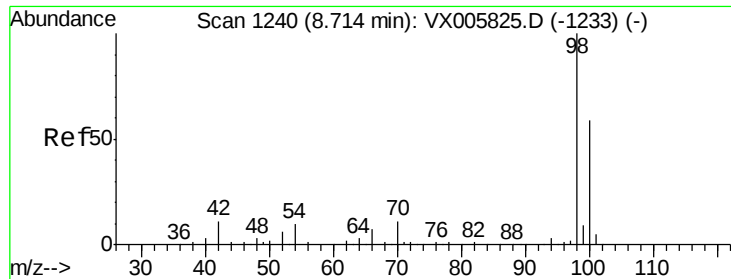
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11/19/2018 12:22:35 PM



#40
Benzene
Concen: 130.434 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.4	27.6





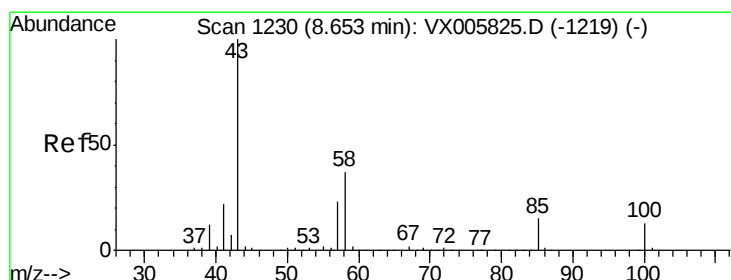
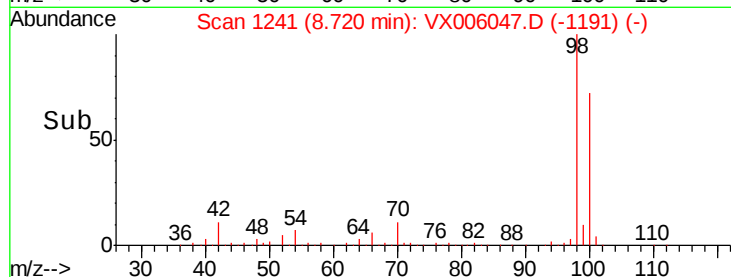
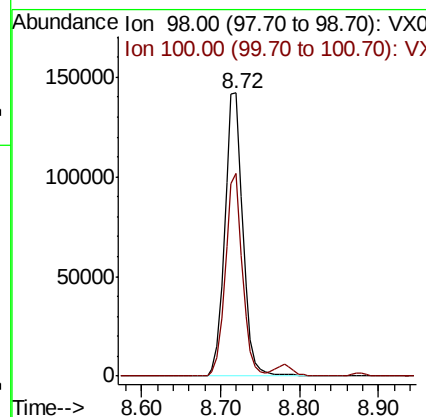
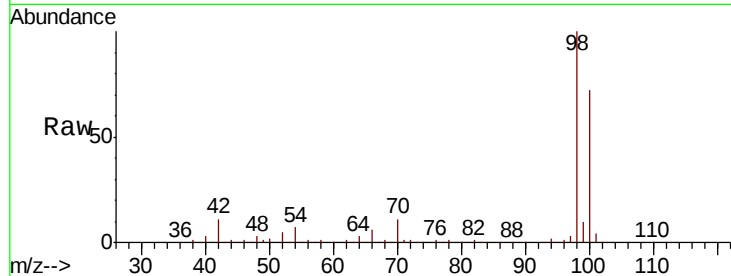
#50
Toluene-d8
Concen: 49.435 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion: 98 Resp: 226642
Ion Ratio Lower Upper
98 100
100 67.2 51.3 76.9

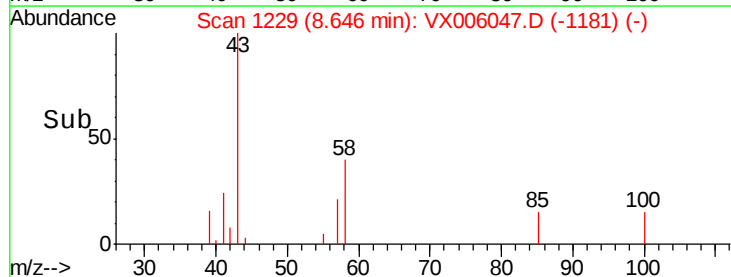
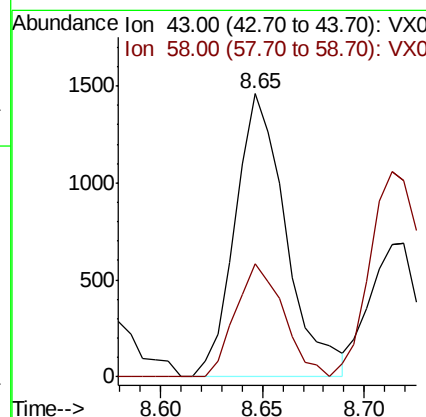
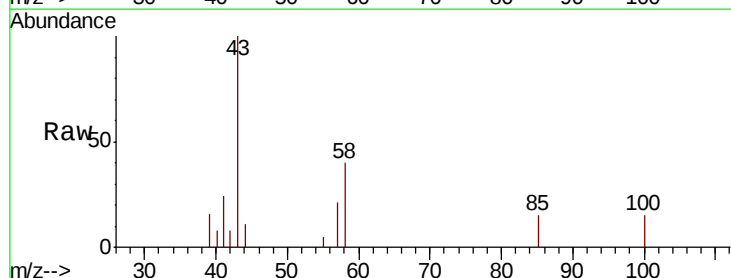
Manual Integrations
APPROVED

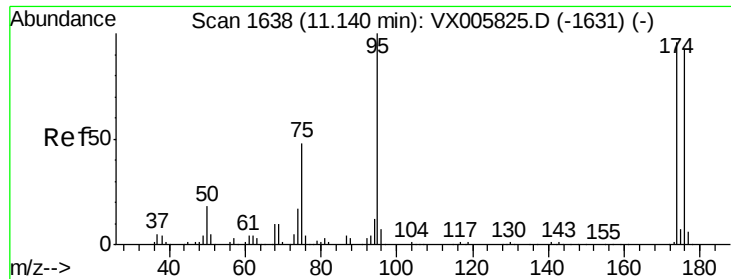
MMDadoda
11/19/2018 12:22:35 PM



#51
4-Methyl-2-Pentanone
Concen: 1.083 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion: 43 Resp: 2541
Ion Ratio Lower Upper
43 100
58 37.3 29.7 44.5





#62

4-Bromofluorobenzene

Concen: 58.017 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Instrument :

MSVOA_X

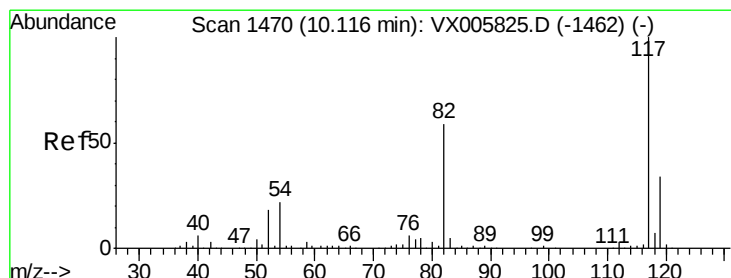
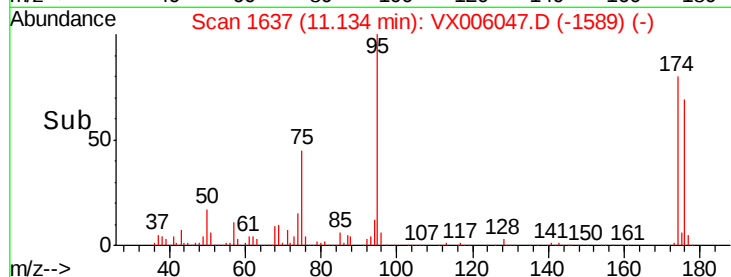
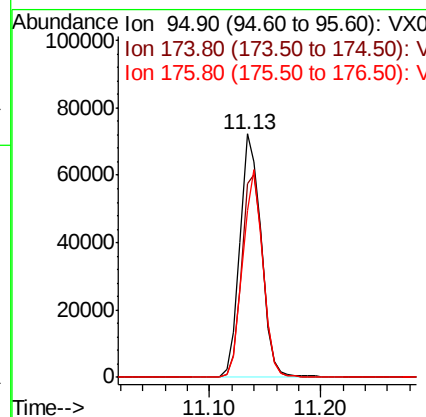
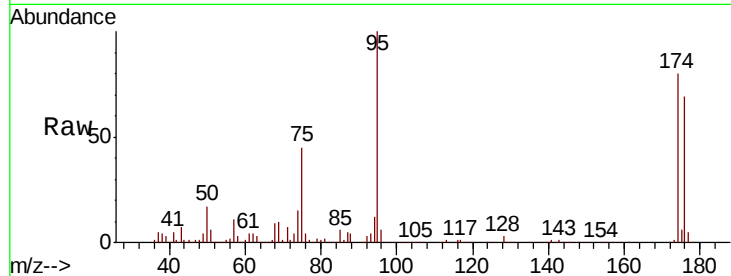
ClientSampleId :

S36-0145

Tot Ion:	95	Resp:	95632
Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	184.4
176	80.7	0.0	177.4

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

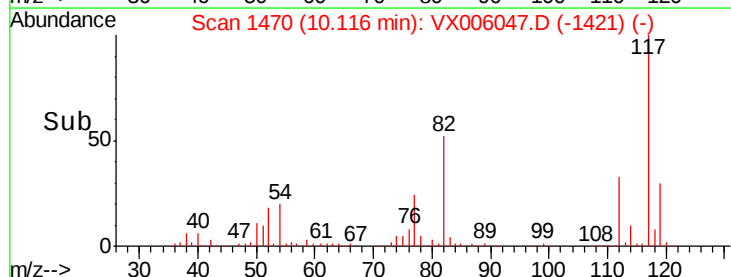
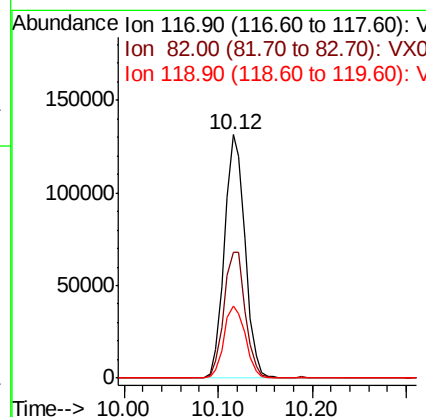
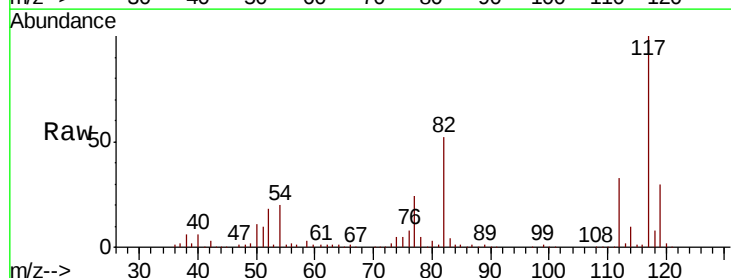
RT: 10.12 min Scan# 1470

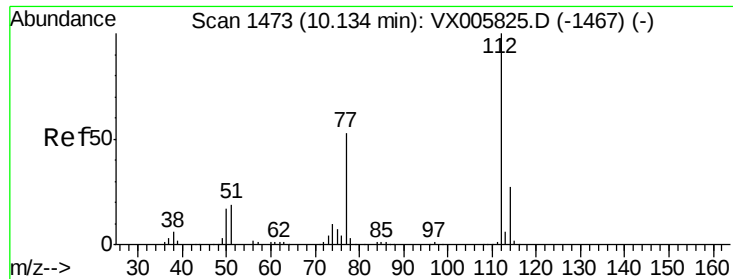
Delta R.T. -0.00 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Tgt Ion:	117	Resp:	198724
Ion	Ratio	Lower	Upper
117	100		
82	51.6	44.1	66.1
119	29.5	26.2	39.2





#65

Chlorobenzene

Concen: 1410.364 ug/l

RT: 10.15 min Scan# 1475

Delta R.T. 0.01 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Instrument :

MSVOA_X

ClientSampleId :

S36-0145

Tot Ion:112 Resp: 5614765

Ion Ratio Lower Upper

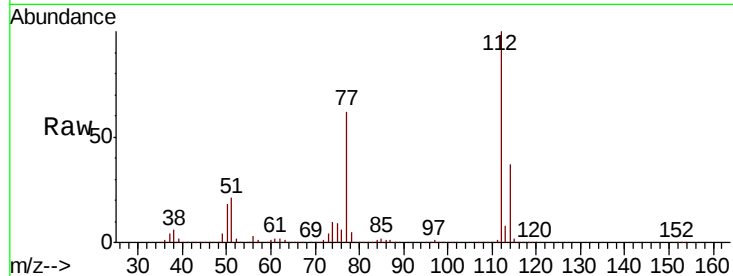
112 100

114 37.4 25.8 38.6

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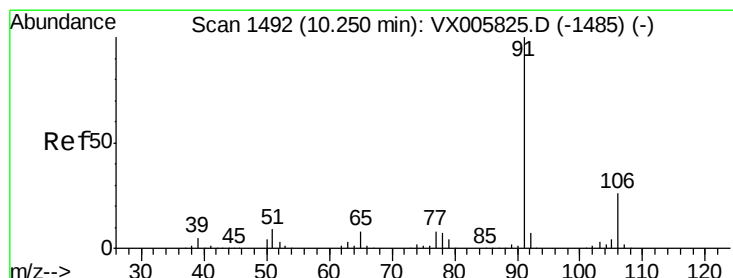
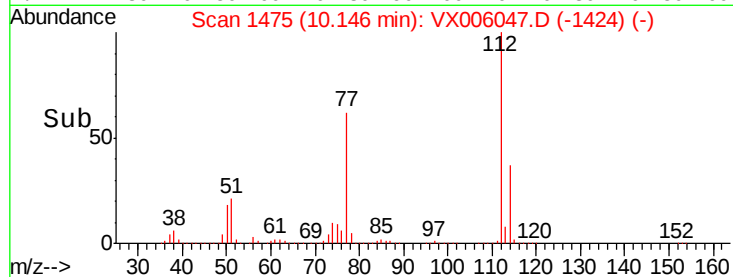
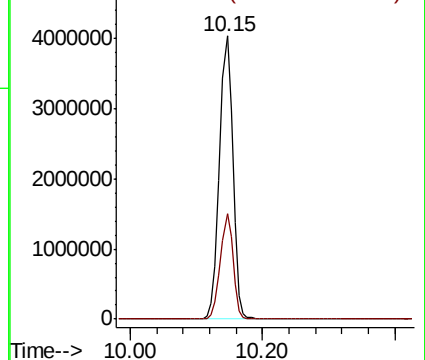
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11/19/2018 12:22:35 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 69.412 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX006047.D

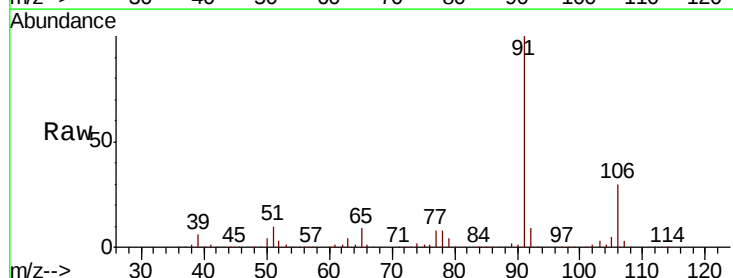
Acq: 16 Nov 2018 14:02

Tgt Ion: 91 Resp: 443106

Ion Ratio Lower Upper

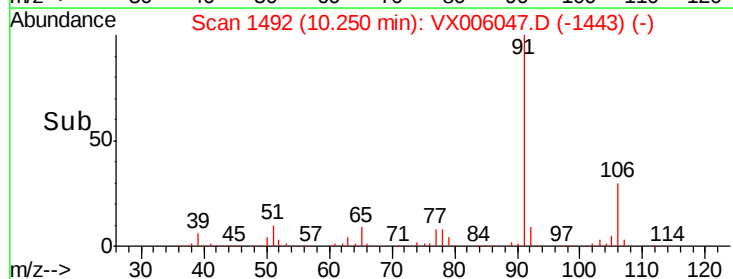
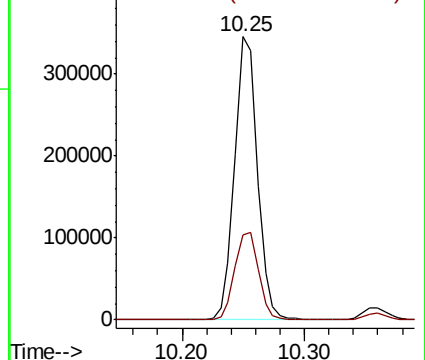
91 100

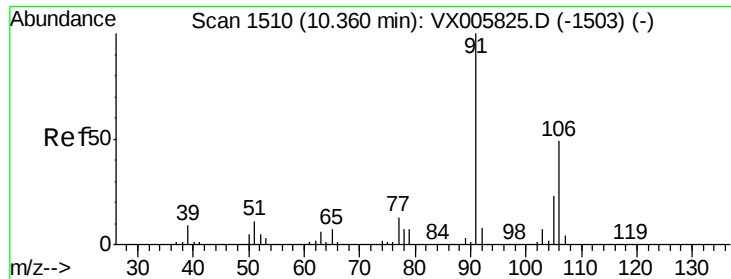
106 30.2 24.4 36.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





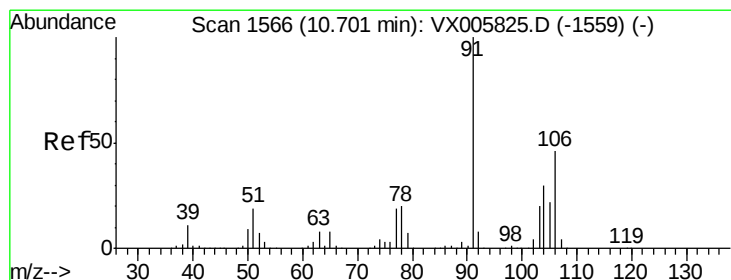
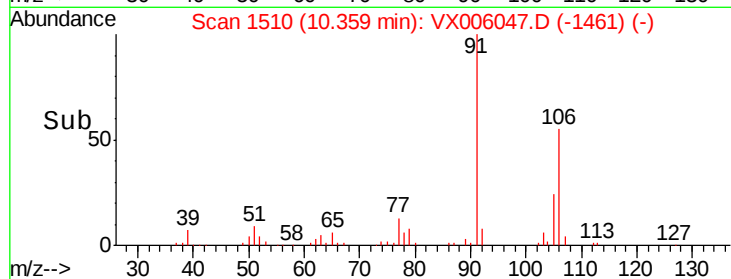
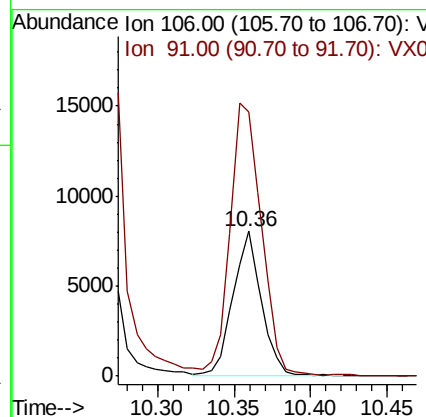
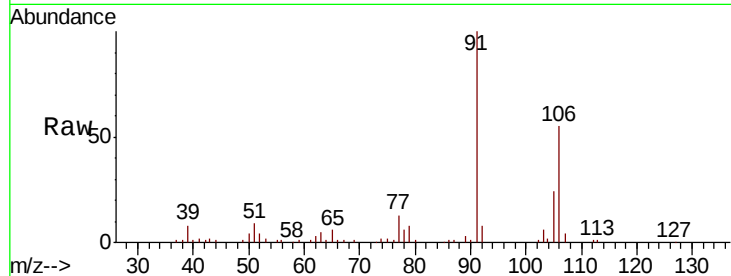
#68
m/p-Xvlenes
Concen: 4.292 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion:106 Resp: 10452
Ion Ratio Lower Upper
106 100
91 207.4 164.2 246.4

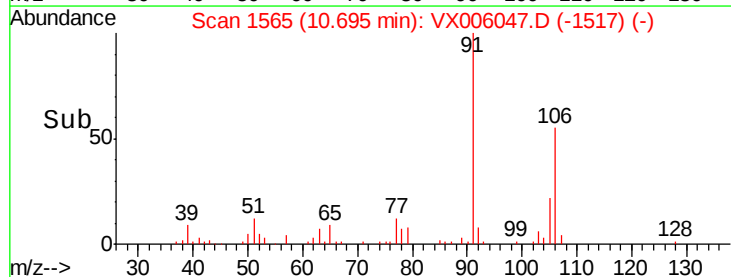
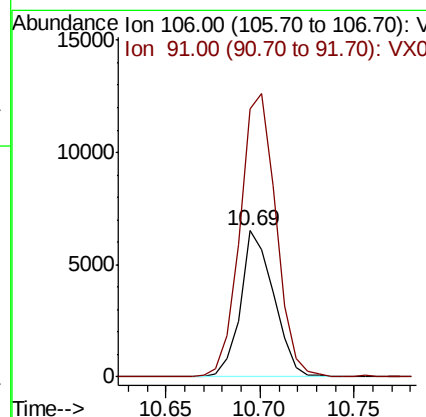
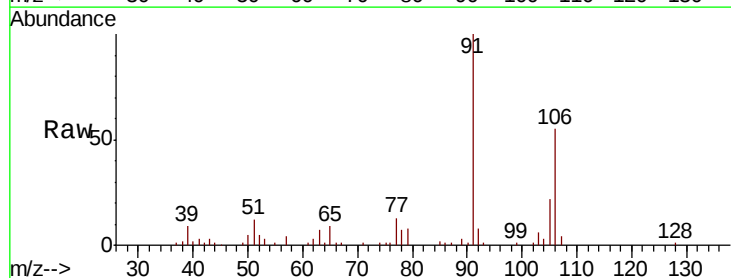
Manual Integrations
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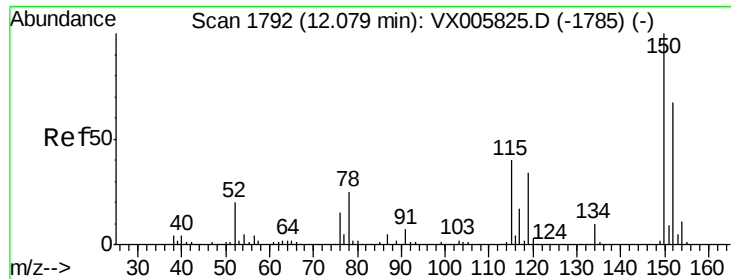
MMDadoda
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#69
o-Xylene
Concen: 3.641 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion:106 Resp: 7951
Ion Ratio Lower Upper
106 100
91 209.9 108.5 325.5





#72

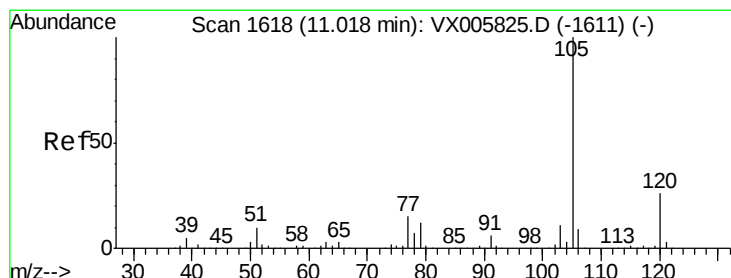
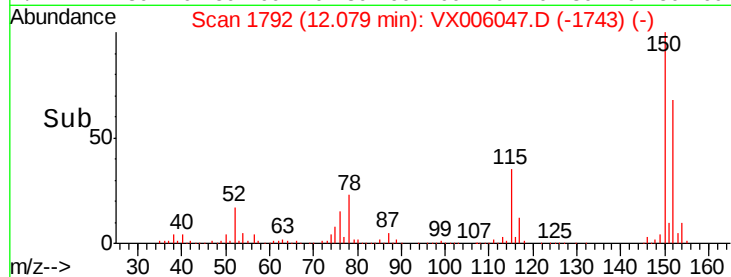
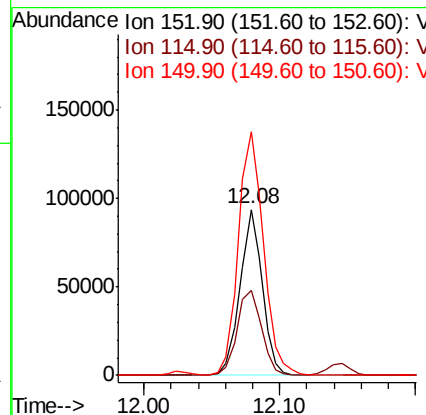
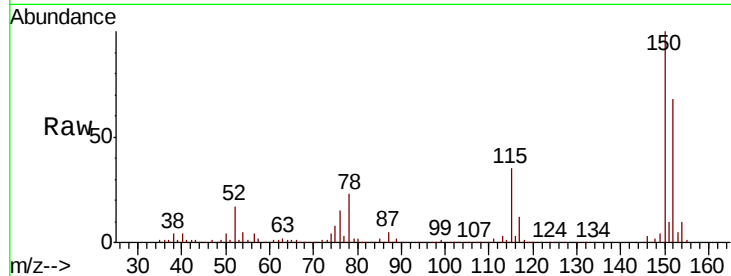
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion	Ratio	Resp	Lower	Upper
152	100	106638		
115	56.2	39.4	118.1	
150	166.1	0.0	346.4	

Manual Integrations
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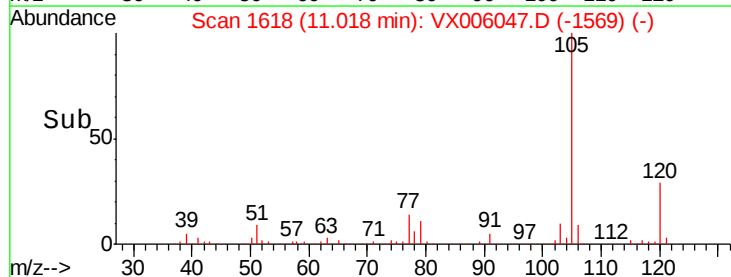
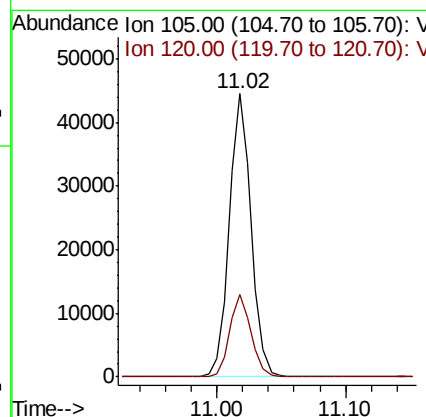
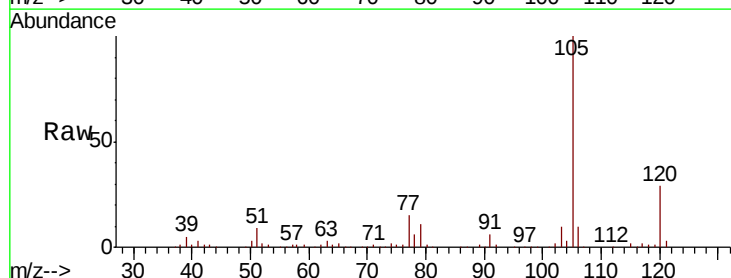
MMDadoda
11/19/2018 12:22:35 PM

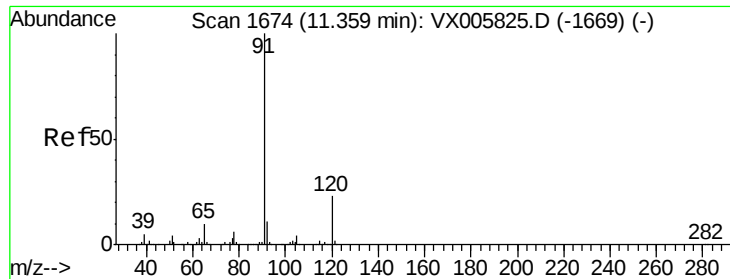


#73

Isopropylbenzene
Concen: 8.623 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	53174		
120	28.6	13.1	39.3	





#78

n-propylbenzene

Concen: 7.439 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX006047.D

Acq: 16 Nov 2018 14:02

Instrument :

MSVOA_X

ClientSampled :

S36-0145

Tot Ion: 91 Resp: 54063

Ion Ratio Lower Upper

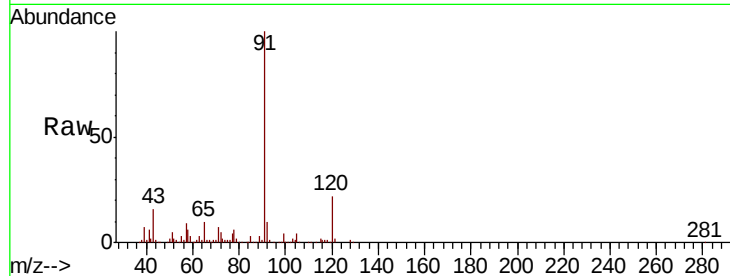
91 100

120 23.0 11.9 35.5

Manual Integrations
APPROVED

MMDadoda

11/19/2018 12:22:35 PM



Abundance Ion 91.00 (90.70 to 91.70): VX006047.D (-1669) (-)

Ion 120.00 (119.70 to 120.70): VX006047.D (-1669) (-)

50000

40000

30000

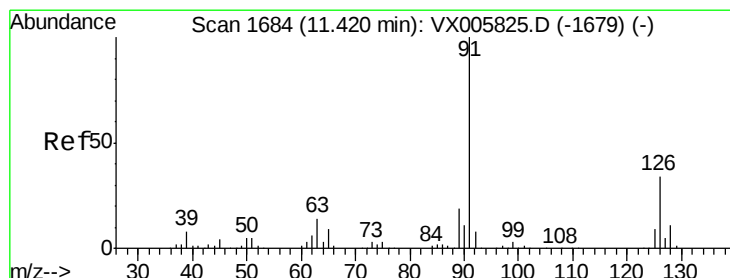
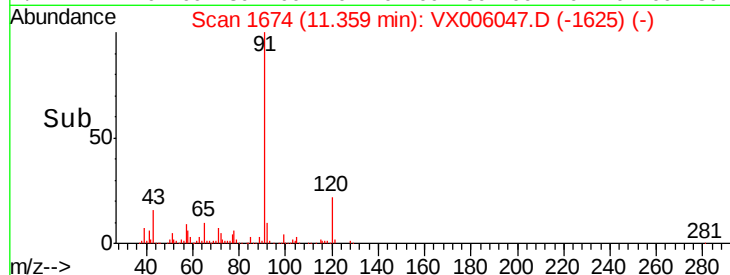
20000

10000

0

11.30 11.35 11.40

Time-->



#79

2-Chlorotoluene

Concen: 1.431 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX006047.D

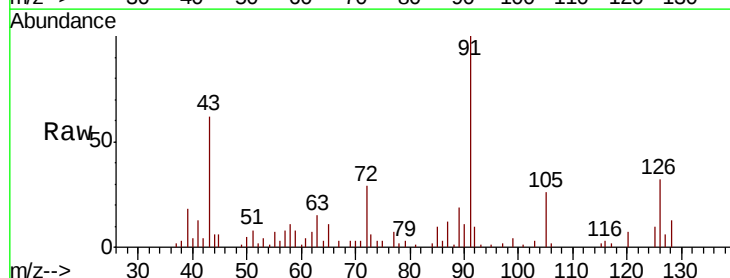
Acq: 16 Nov 2018 14:02

Tgt Ion: 91 Resp: 6287

Ion Ratio Lower Upper

91 100

126 28.8 17.3 52.0



Abundance Ion 91.00 (90.70 to 91.70): VX006047.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX006047.D (-1679) (-)

50000

40000

30000

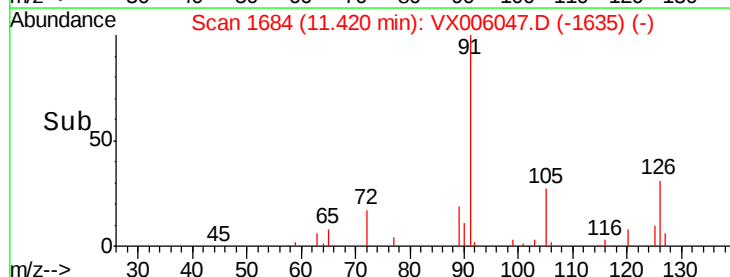
20000

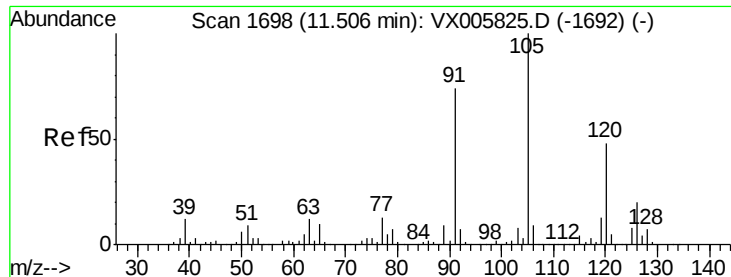
10000

0

11.40 11.42 11.44 11.46 11.48 11.50

Time-->





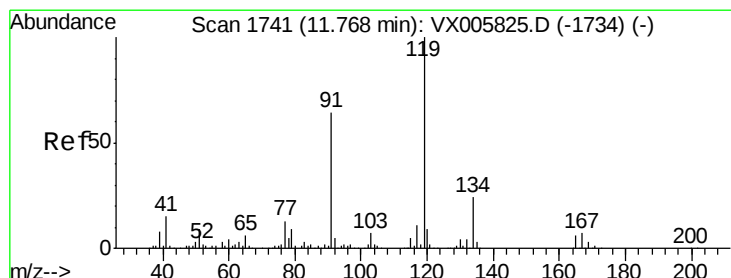
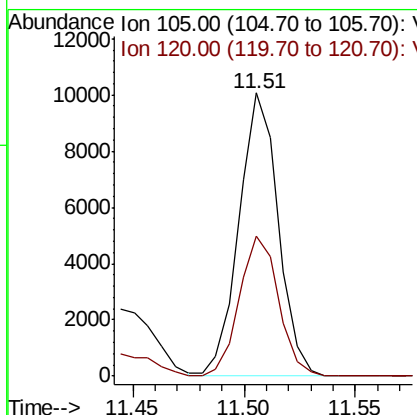
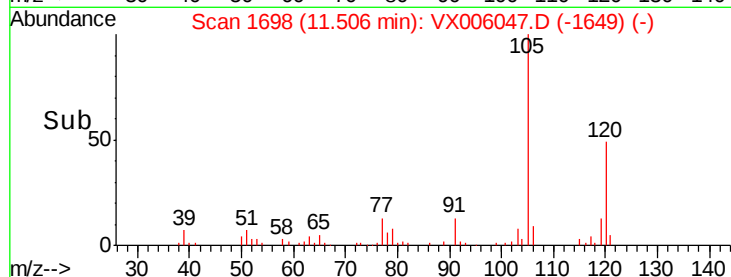
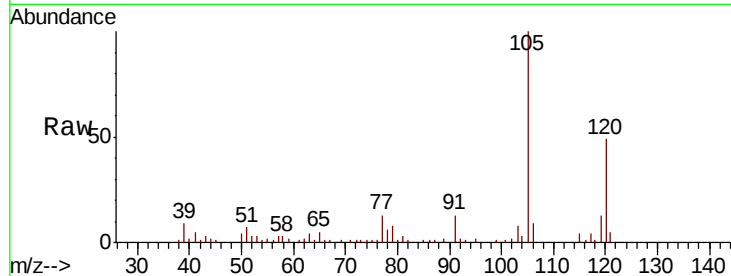
#80
1,3,5-Trimethylbenzene
Concen: 2.361 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampled :
S36-0145

Tot Ion:105 Resp: 12371
Ion Ratio Lower Upper
105 100
120 49.3 24.1 72.2

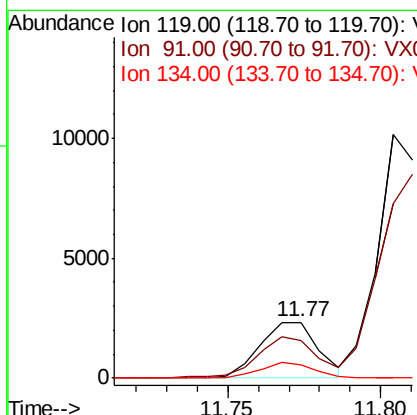
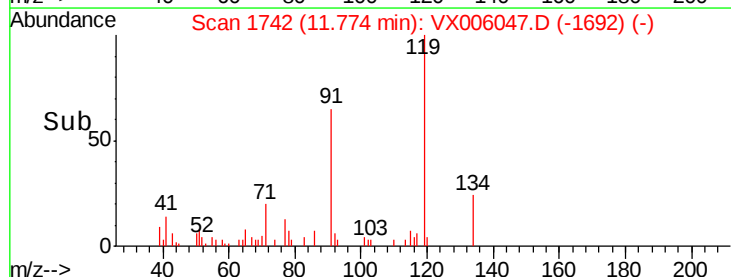
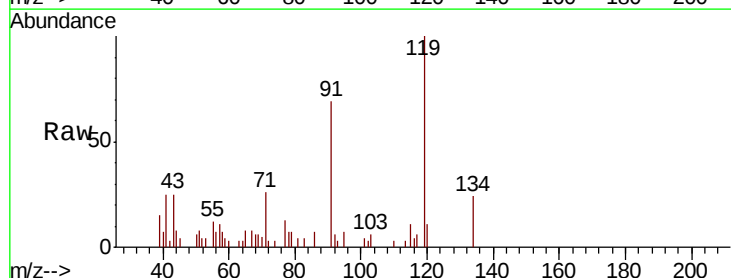
Manual Integrations
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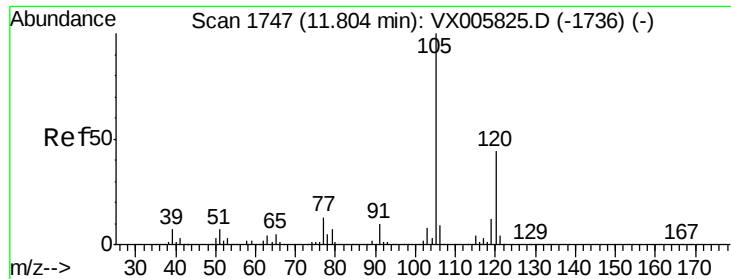
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11/19/2018 12:22:35 PM



#83
tert-Butylbenzene
Concen: 0.587 ug/l
RT: 11.77 min Scan# 1742
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion:119 Resp: 3110
Ion Ratio Lower Upper
119 100
91 75.9 28.5 85.5
134 25.0 11.3 33.8





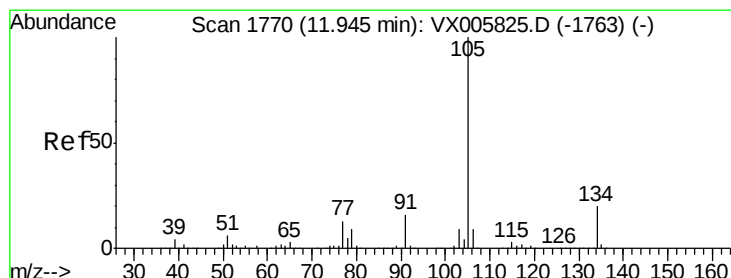
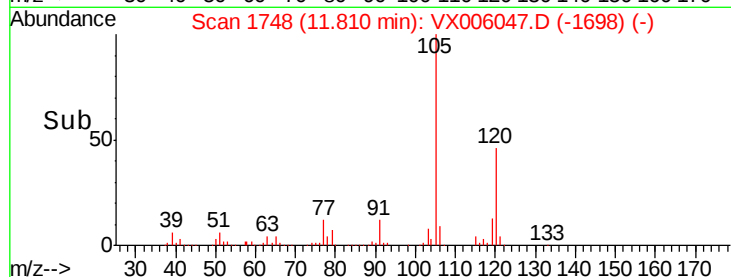
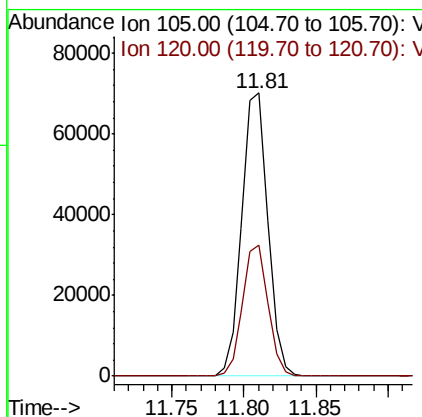
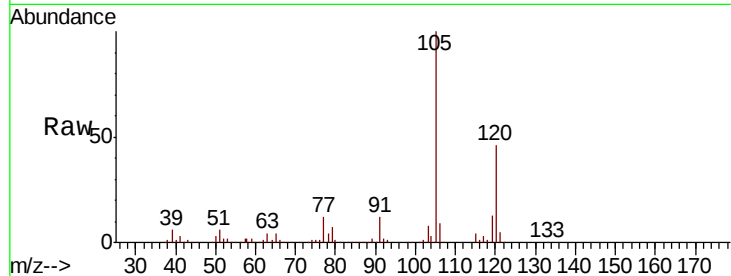
#84
1,2,4-Trimethylbenzene
Concen: 15.198 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion:105 Resp: 88377
Ion Ratio Lower Upper
105 100
120 45.9 22.4 67.0

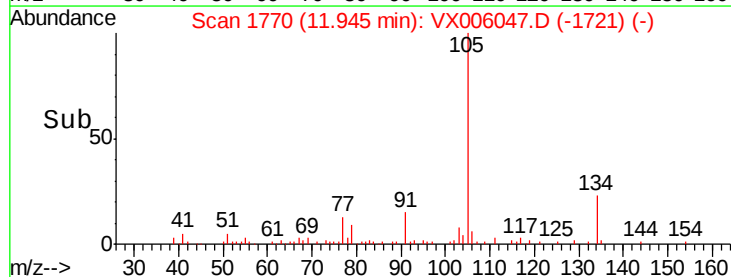
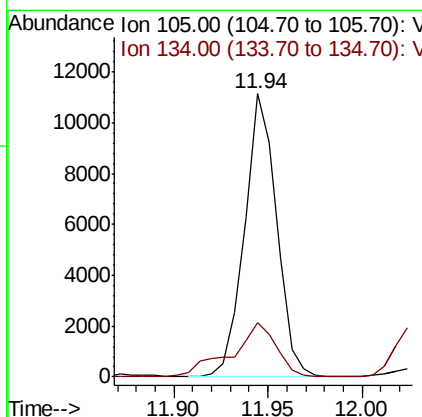
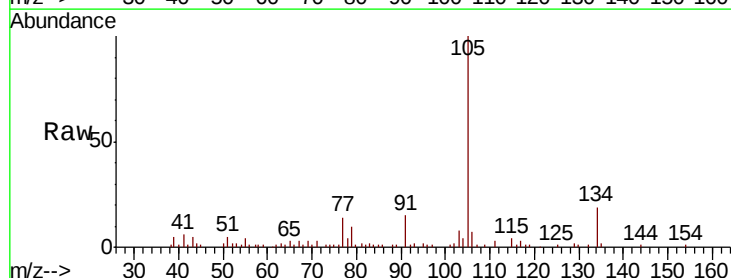
Manual Integrations
APPROVED

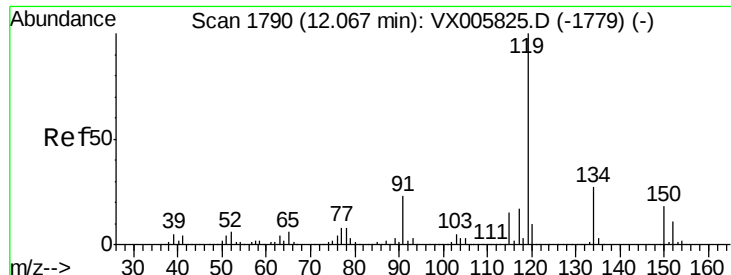
MMDadoda
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#85
sec-Butylbenzene
Concen: 2.026 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. -0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Tgt Ion:105 Resp: 13137
Ion Ratio Lower Upper
105 100
134 27.0 10.2 30.4





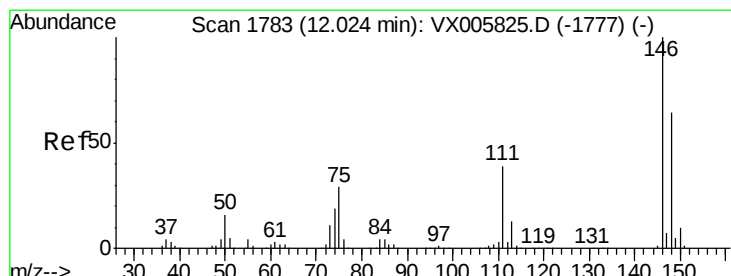
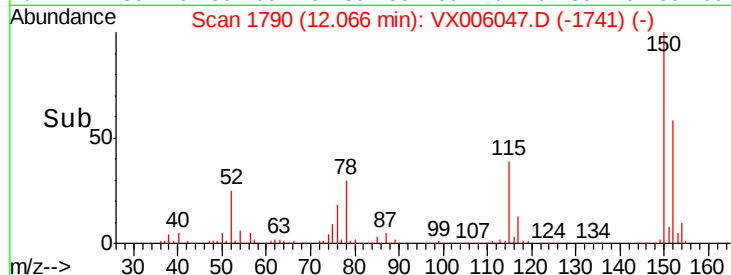
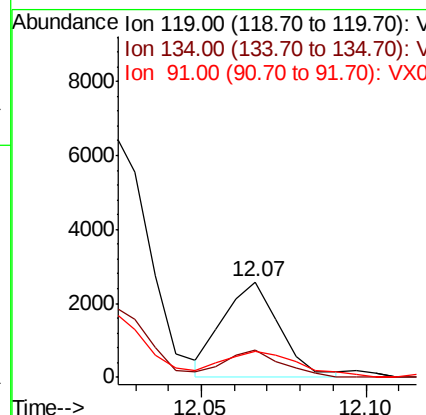
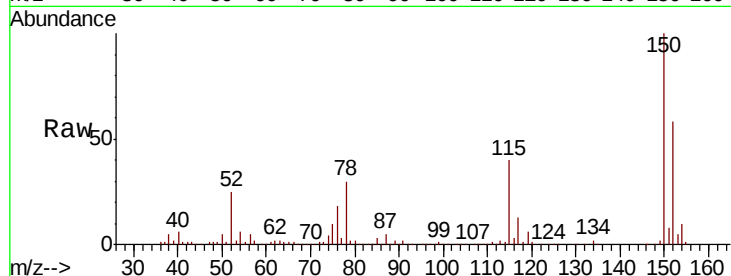
#86
 p-Isopropyltoluene
 Concen: 0.534 ug/l m
 RT: 12.07 min Scan# 1790
 Delta R.T. -0.00 min
 Lab File: VX006047.D
 Acq: 16 Nov 2018 14:02

Instrument :
 MSVOA_X
 ClientSampled :
 S36-0145

Tot Ion	Ratio	Resp	Lower	Upper
119	100	3067		
134	75.7	13.0	39.0#	
91	72.3	11.4	34.2#	

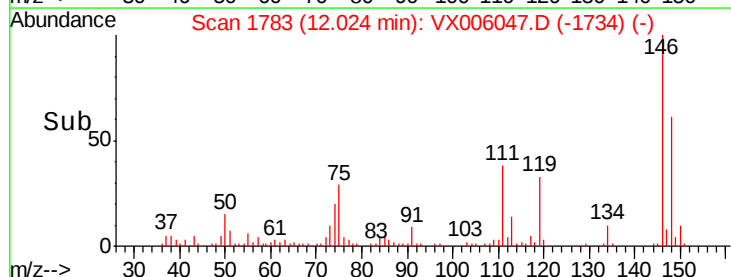
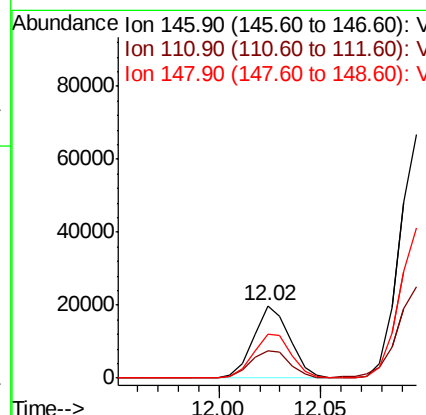
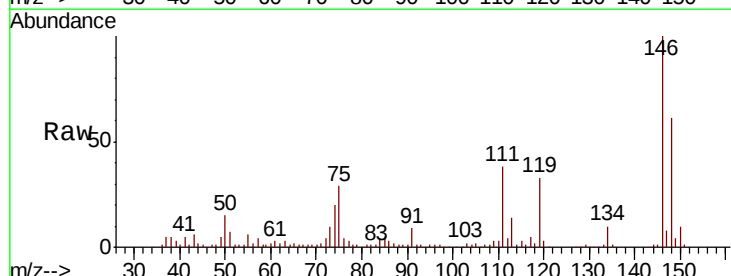
Manual Integrations
 APPROVED

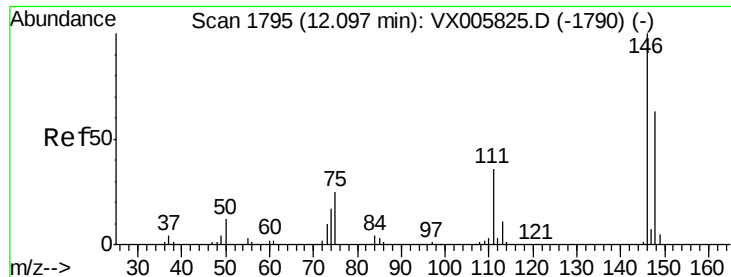
MMDadoda
 11/19/2018 12:22:35 PM



#87
 1,3-Dichlorobenzene
 Concen: 7.327 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX006047.D
 Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	24443		
111	42.2	19.0	57.0	
148	64.8	31.9	95.9	





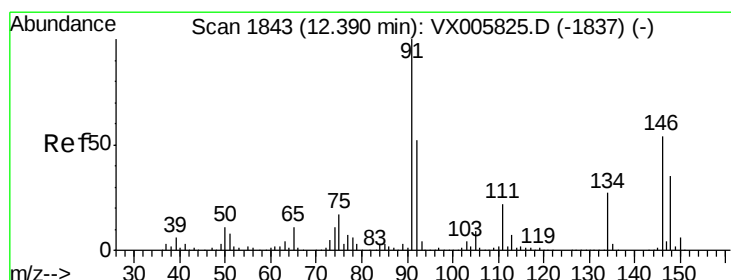
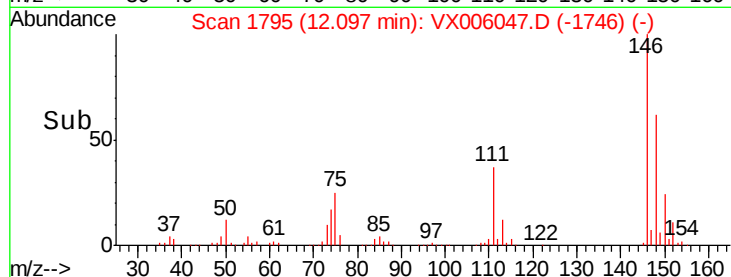
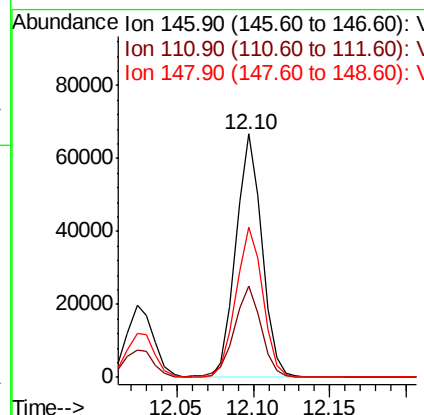
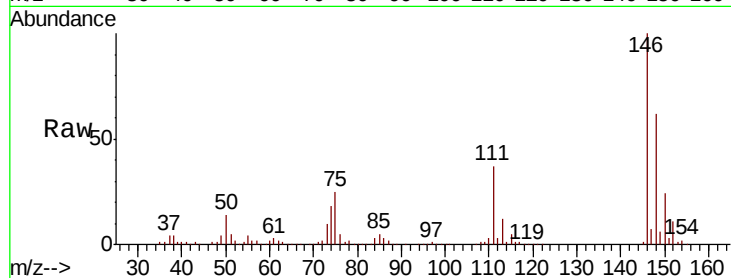
#88
 1,4-Dichlorobenzene
 Concen: 23.044 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX006047.D
 Acq: 16 Nov 2018 14:02

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0145

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.6	55.8
148	63.8	32.1	96.3

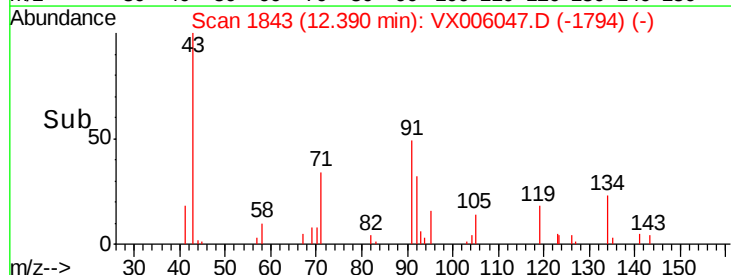
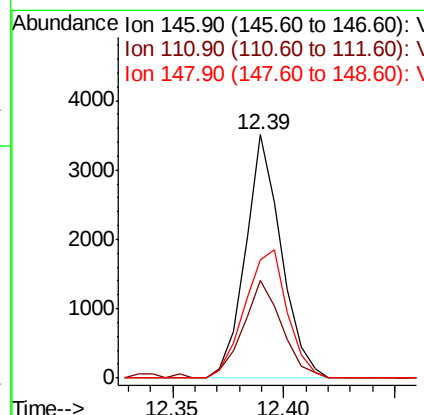
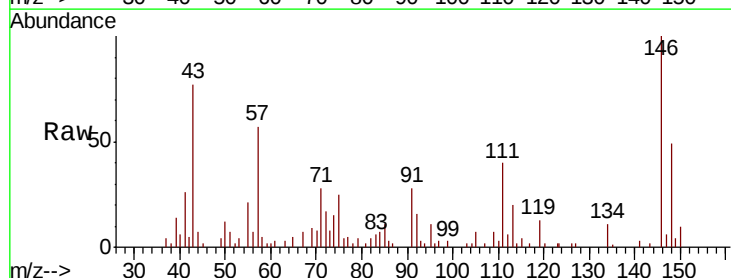
Manual Integrations
 APPROVED

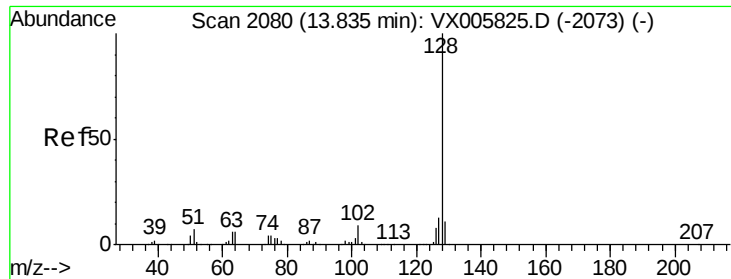
MMDadoda
 11/19/2018 12:22:35 PM



#91
 1,2-Dichlorobenzene
 Concen: 1.174 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX006047.D
 Acq: 16 Nov 2018 14:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	20.0	59.9
148	62.6	32.2	96.6





#95
Naphthalene
Concen: 15.793 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006047.D
Acq: 16 Nov 2018 14:02

Instrument :
MSVOA_X
ClientSampleId :
S36-0145

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/19/2018 12:22:35 PM

