

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032819\
 Data File : VX008524.D
 Acq On : 28 Mar 2019 17:00
 Operator : JC/SP
 Sample : K2121-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-1

Manual Integrations
 APPROVED

MMDadoda
 3/29/2019 10:52:08 AM

Quant Time: Mar 29 03:23:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	230702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383630	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	328139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138446	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	160916	46.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.02%	
35) Dibromofluoromethane	5.50	113	118554	47.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.78%	
50) Toluene-d8	8.71	98	481205	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.13	95	165977	44.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.56%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	13033	3.433	ug/l	94
11) Tert butyl alcohol	3.04	59	3045	3.930	ug/l #	94
16) Acetone	2.44	43	12206	6.677	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	1784	0.398	ug/l	85
25) 2-Butanone	4.68	43	4034	1.377	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	211177	64.344	ug/l	89
31) Cyclohexane	5.58	56	2003	0.357	ug/l	93
39) Methylcyclohexane	7.46	83	3149	0.644	ug/l	92
40) Benzene	6.14	78	11333	0.925	ug/l	99
52) Toluene	8.78	92	65298	8.918	ug/l	99
67) Ethyl Benzene	10.25	91	389497	28.921	ug/l	100
68) m/p-Xylenes	10.35	106	219406	44.781	ug/l	99
69) o-Xylene	10.69	106	159603	33.568	ug/l	98
73) Isopropylbenzene	11.02	105	63452	5.634	ug/l	99
78) n-propylbenzene	11.36	91	180543	13.684	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	372970	39.168	ug/l	100
83) tert-Butylbenzene	11.77	119	36449	3.967	ug/l	87
84) 1,2,4-Trimethylbenzene	11.80	105	1178988	122.413	ug/l	98
85) sec-Butylbenzene	11.94	105	30385m	2.777	ug/l	
86) p-Isopropyltoluene	12.06	119	11486m	1.190	ug/l	
89) n-Butylbenzene	12.38	91	35392	3.870	ug/l #	37
91) 1,2-Dichlorobenzene	12.39	146	2300	0.470	ug/l	91
95) Naphthalene	13.83	128	21173	1.875	ug/l #	87

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

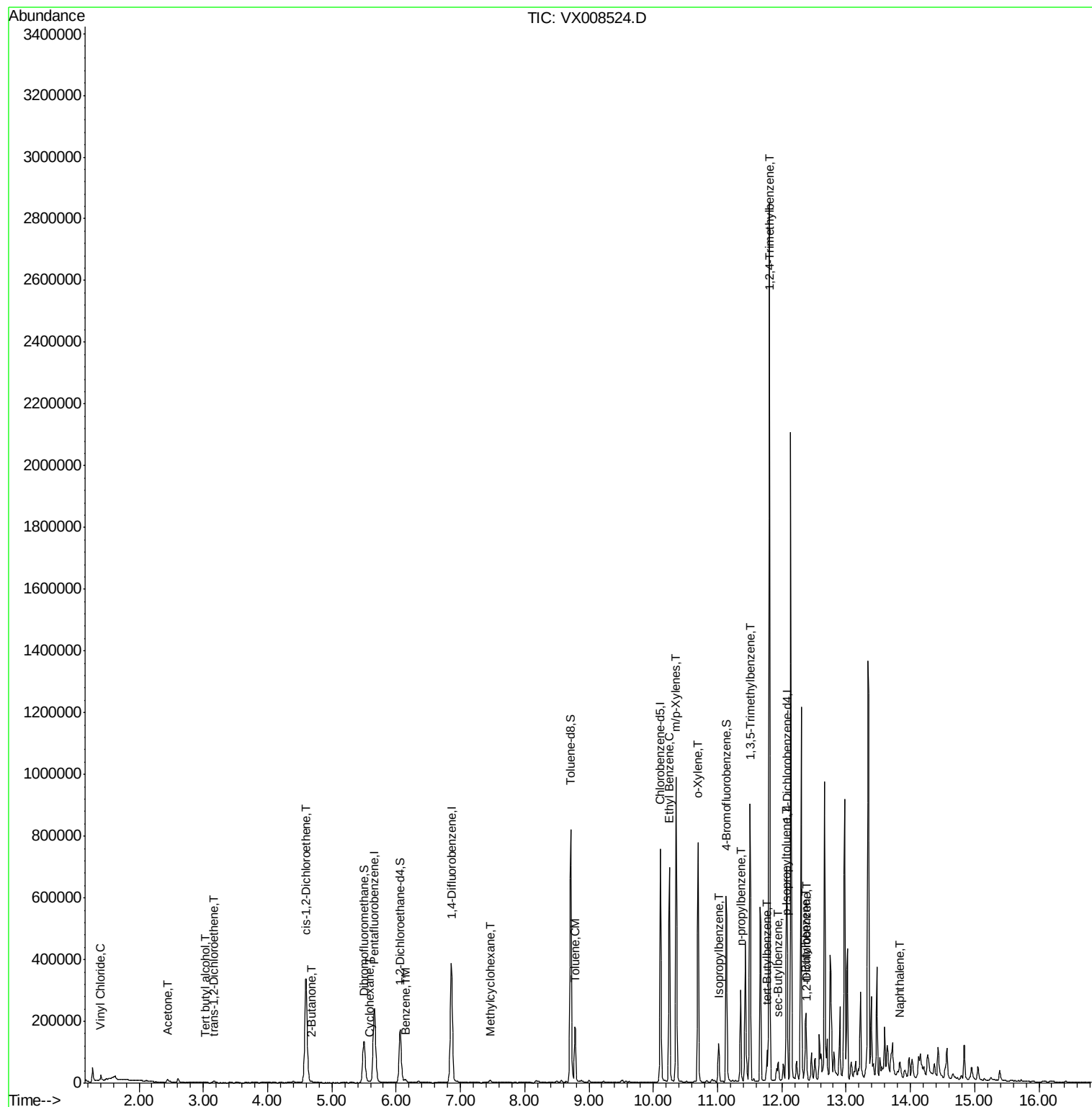
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032819\
Data File : VX008524.D
Acq On : 28 Mar 2019 17:00
Operator : JC/SP
Sample : K2121-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

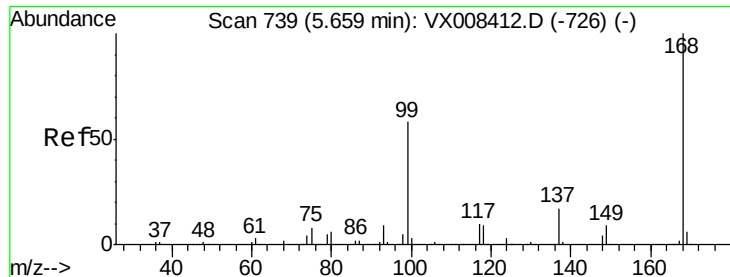
Instrument :
MSVOA_X
ClientSampleId :
TW-1

Manual Integrations
APPROVED

MMDadoda
3/29/2019 10:52:08 AM

Quant Time: Mar 29 03:23:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
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: VX008524.D

Acq: 28 Mar 2019 17:00

Instrument :

MSVOA_X

ClientSampleId :

TW-1

Tot Ion:168 Resp: 230702

Ion Ratio Lower Upper

168 100

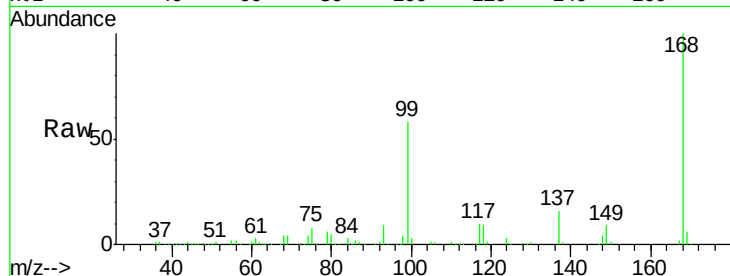
99 57.5 46.0 69.0

Manual Integrations

APPROVED

MMDadoda

3/29/2019 10:52:08 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

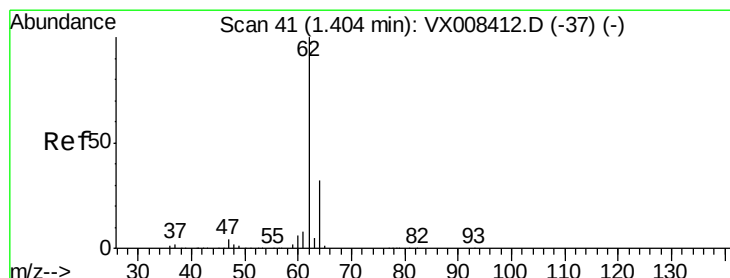
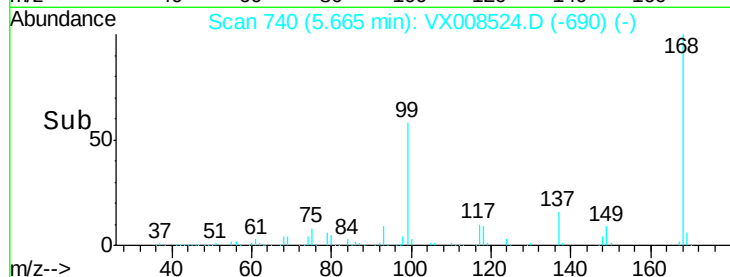
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 3.433 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX008524.D

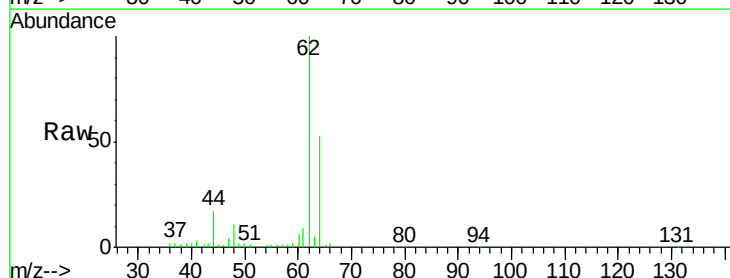
Acq: 28 Mar 2019 17:00

Tgt Ion: 62 Resp: 13033

Ion Ratio Lower Upper

62 100

64 35.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

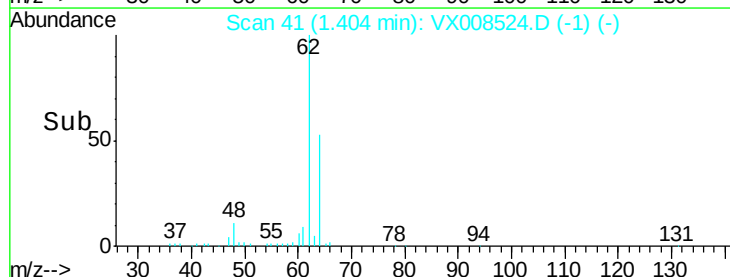
10000

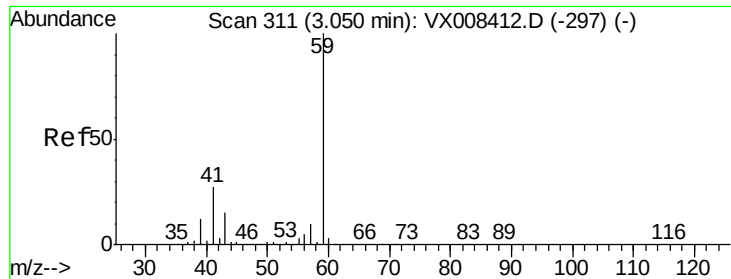
5000

0

1.35 1.40 1.45

Time-->





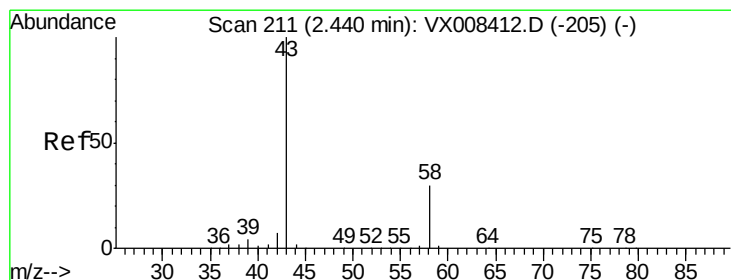
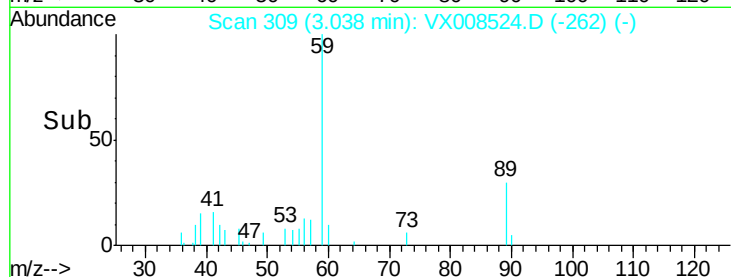
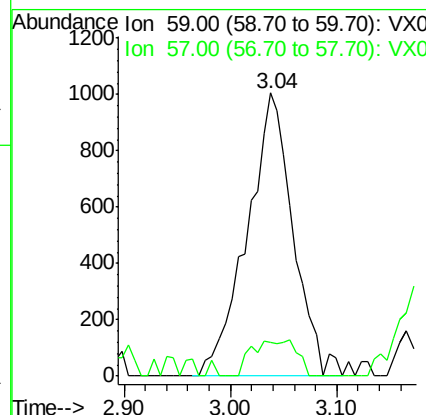
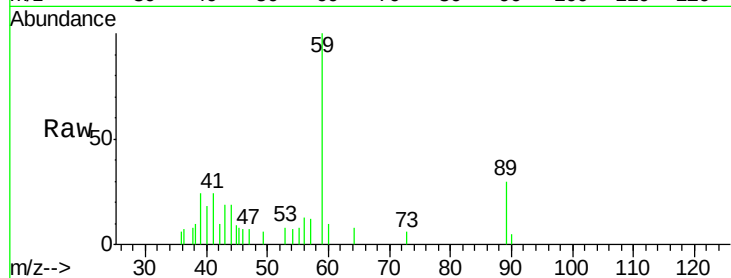
#11
Tert butyl alcohol
Concen: 3.930 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion: 59 Resp: 3045
Ion Ratio Lower Upper
59 100
57 12.4 8.2 12.4#

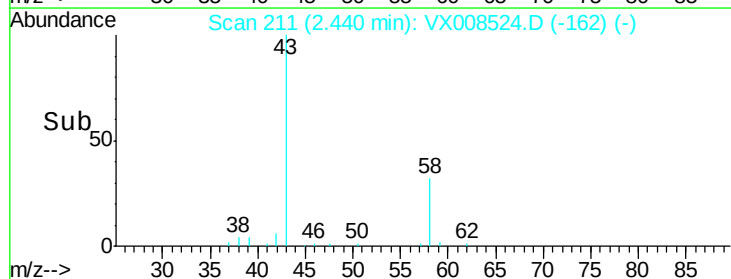
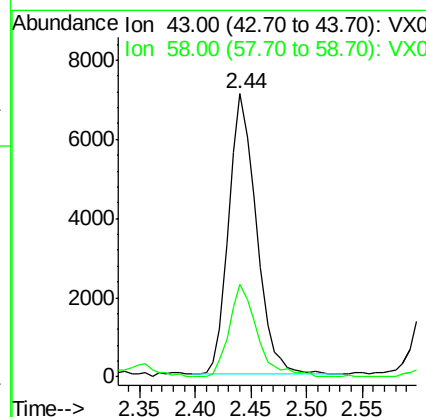
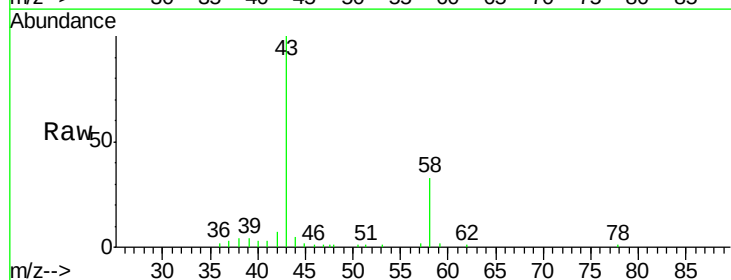
Manual Integrations
APPROVED

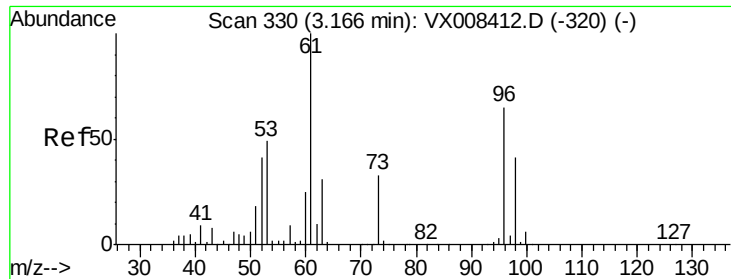
MMDadoda
3/29/2019 10:52:08 AM



#16
Acetone
Concen: 6.677 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion: 43 Resp: 12206
Ion Ratio Lower Upper
43 100
58 33.1 24.2 36.2





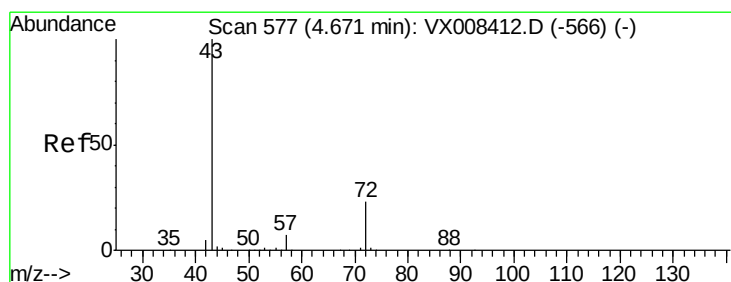
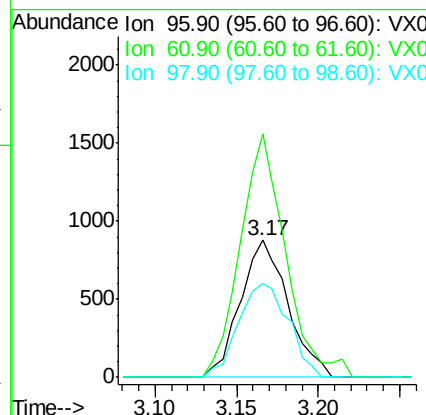
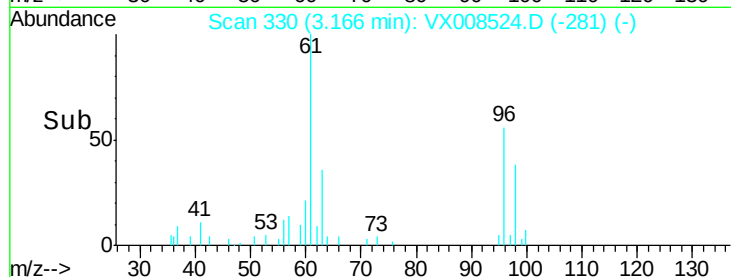
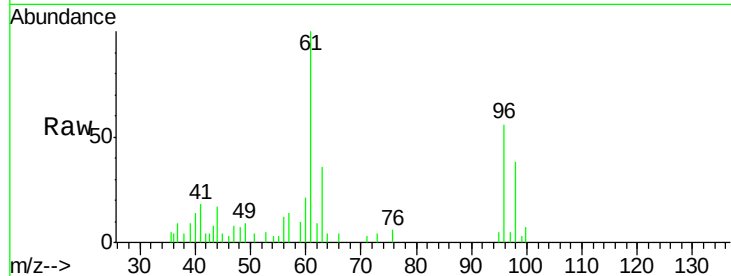
#21
trans-1,2-Dichloroethene
Concen: 0.398 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion	Ratio	Lower	Upper
96	100		
61	177.6	122.6	184.0
98	68.3	50.9	76.3

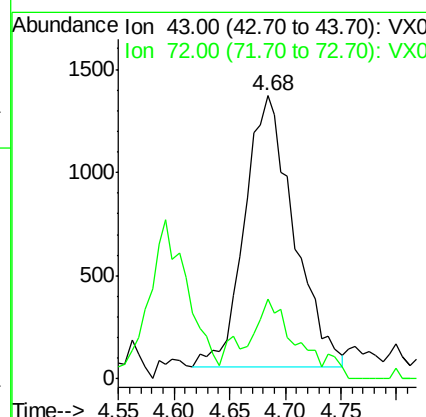
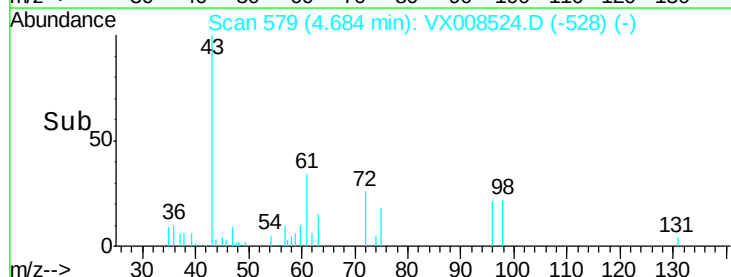
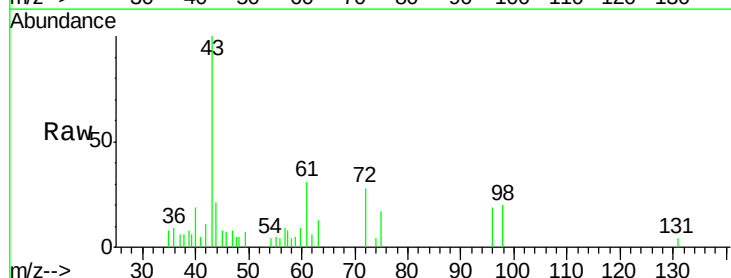
Manual Integrations
APPROVED

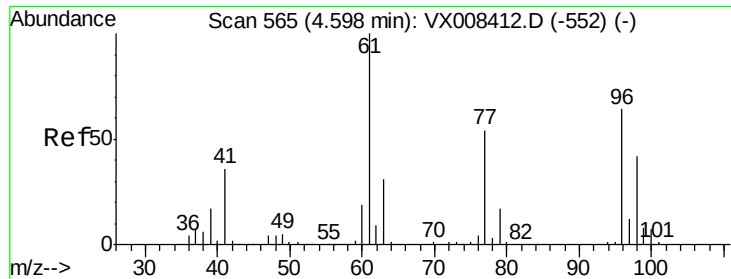
MMDadoda
3/29/2019 10:52:08 AM



#25
2-Butanone
Concen: 1.377 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.2	18.6	28.0





#27

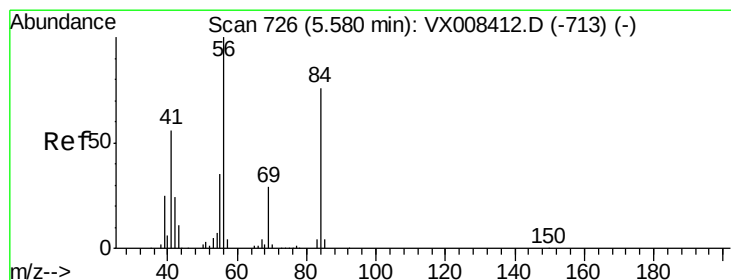
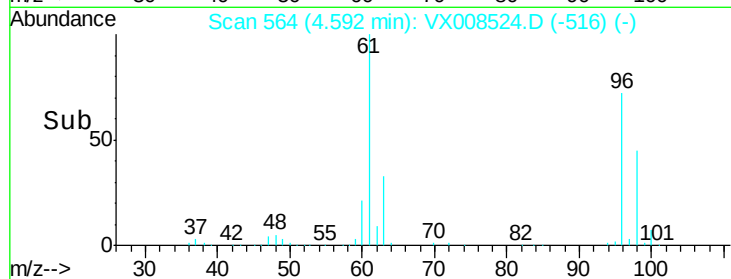
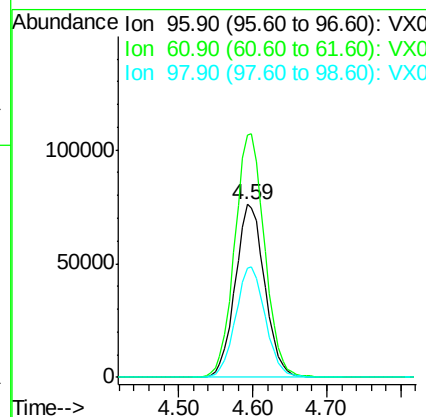
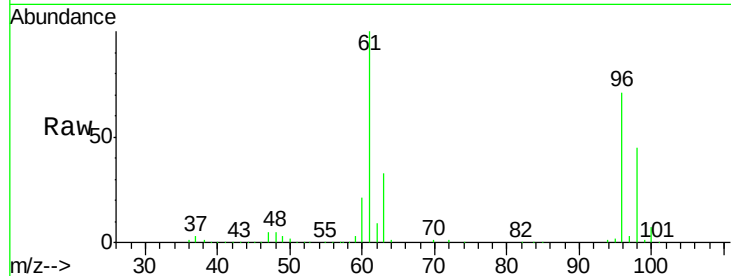
cis-1,2-Dichloroethene
Concen: 64.344 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion	Ratio	Resp	Lower	Upper
96	100	211177		
61	143.1	0.0	325.6	
98	64.4	0.0	130.0	

Manual Integrations
APPROVED

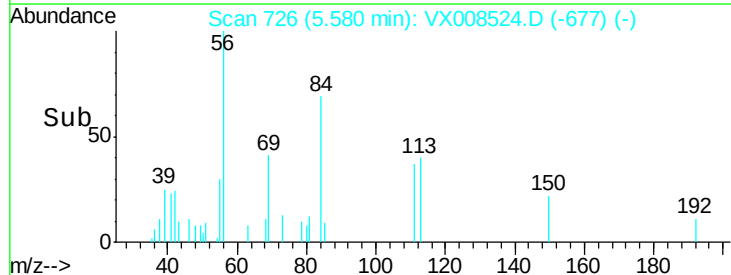
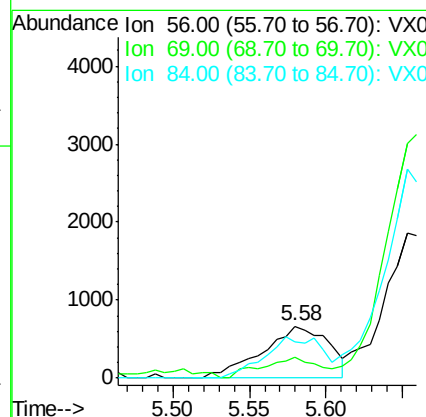
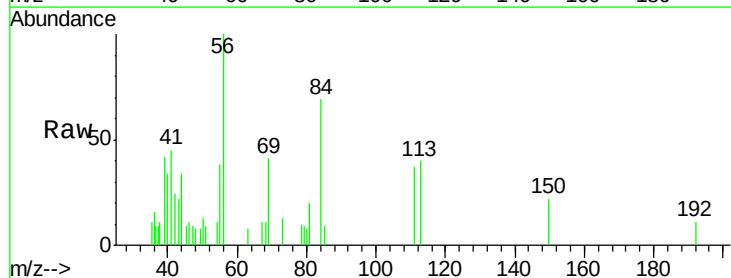
MMDadoda
3/29/2019 10:52:08 AM

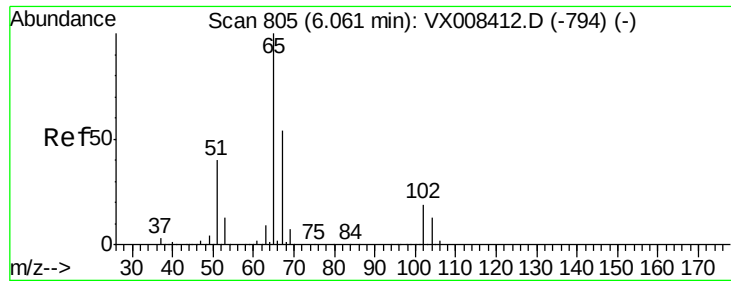


#31

Cyclohexane
Concen: 0.357 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Resp	Lower	Upper
56	100	2003		
69	32.0	23.2	34.8	
84	69.1	60.7	91.1	





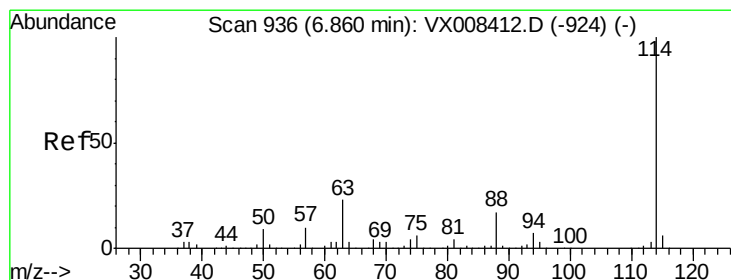
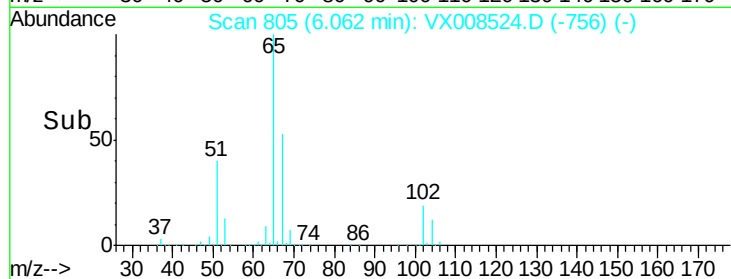
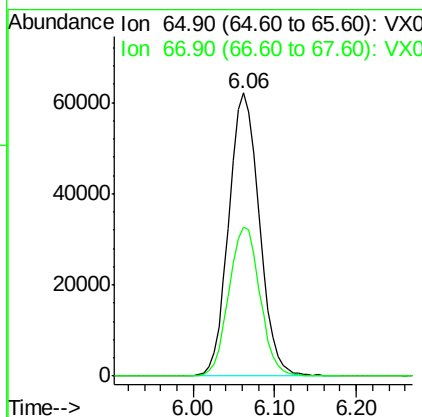
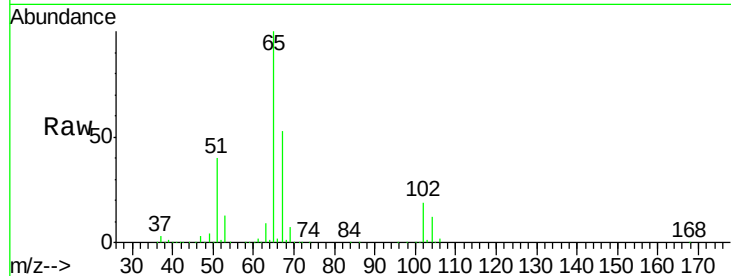
#33
 1,2-Dichloroethane-d4
 Concen: 46.009 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008524.D
 Acq: 28 Mar 2019 17:00

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-1

Tot Ion	Ratio	Resp	Lower	Upper
65	100	160916		
67	53.5	0.0	109.4	

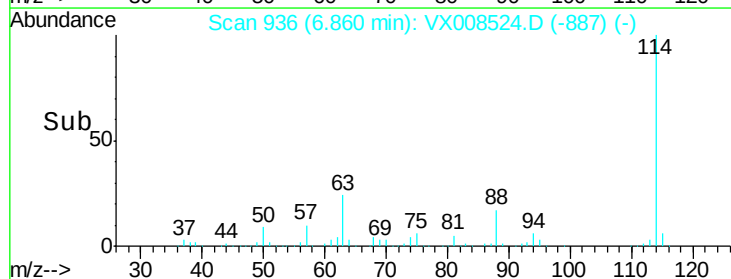
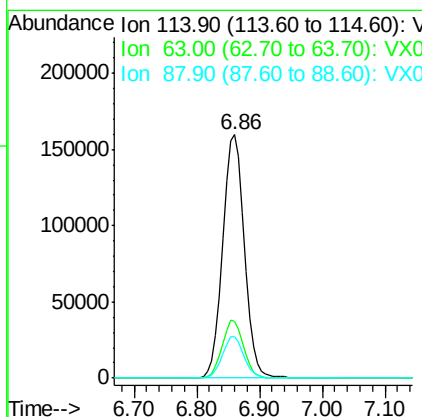
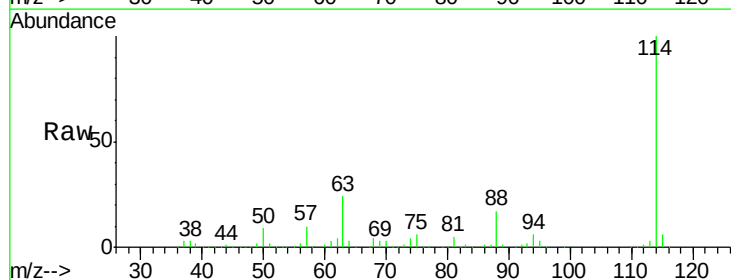
Manual Integrations
 APPROVED

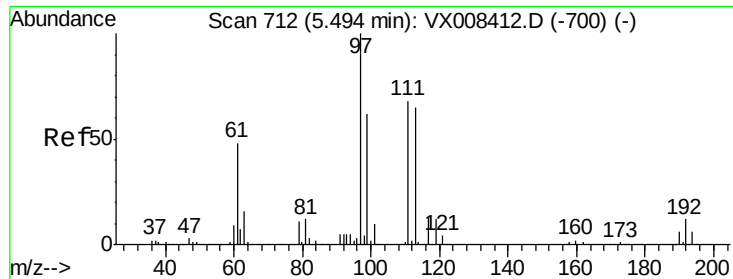
MMDadoda
 3/29/2019 10:52:08 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008524.D
 Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	383630		
63	23.5	0.0	46.4	
88	16.9	0.0	33.2	





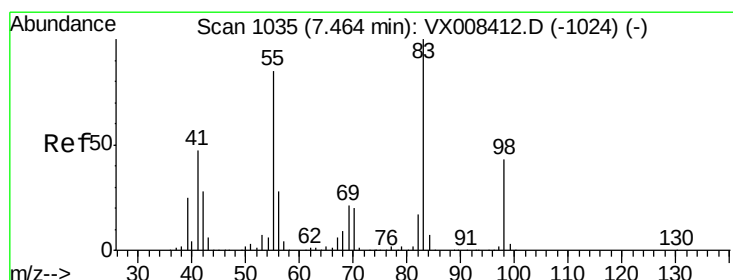
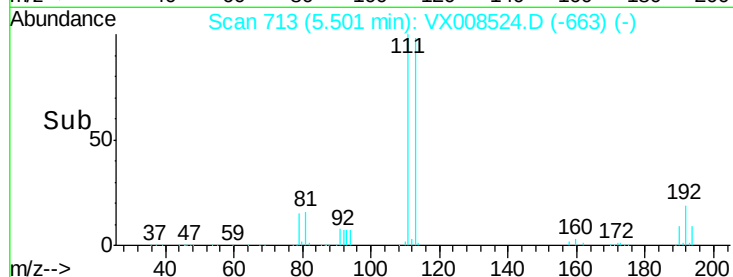
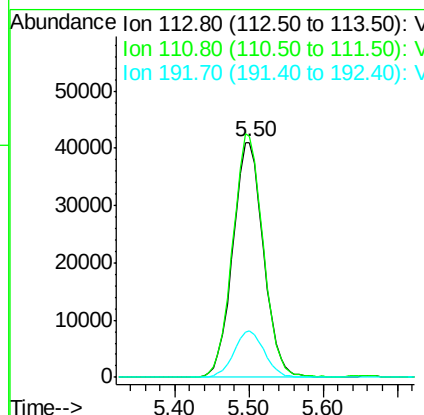
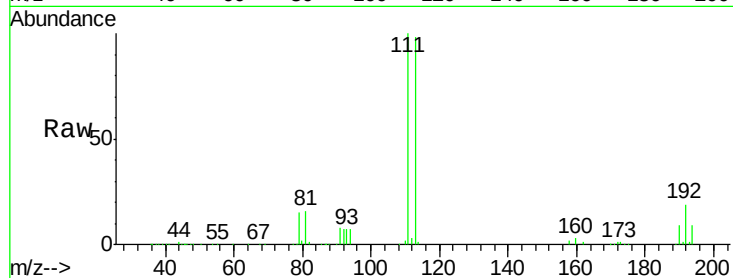
#35
Dibromofluoromethane
Concen: 47.394 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.6	83.0	124.4	
192	19.7	15.6	23.4	

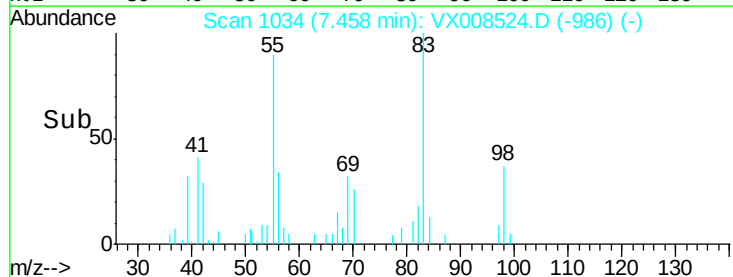
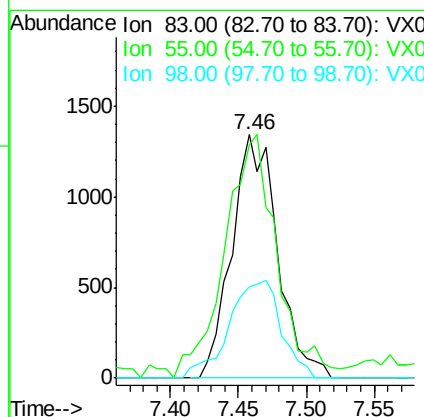
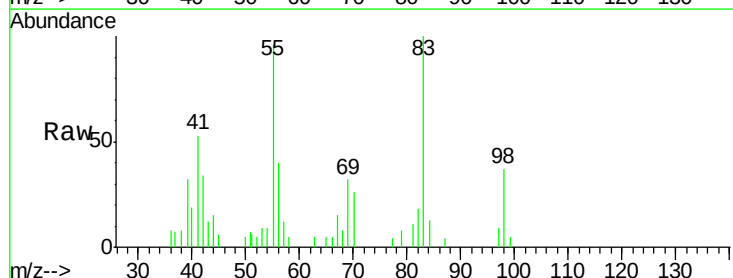
Manual Integrations
APPROVED

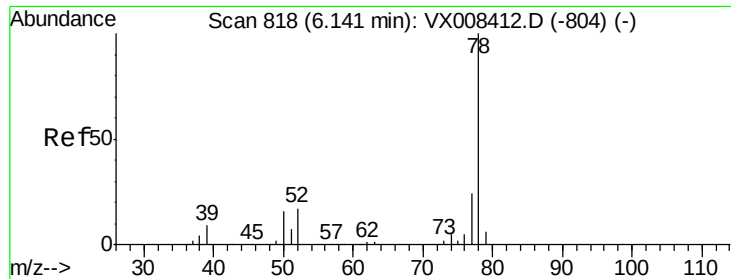
MMDadoda
3/29/2019 10:52:08 AM



#39
Methylcyclohexane
Concen: 0.644 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	91.8	68.2	102.4	
98	37.5	34.2	51.4	





#40

Benzene

Concen: 0.925 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX008524.D

Acq: 28 Mar 2019 17:00

Instrument :

MSVOA_X

ClientSampleId :

TW-1

Tot Ion: 78 Resp: 11333

Ion Ratio Lower Upper

78 100

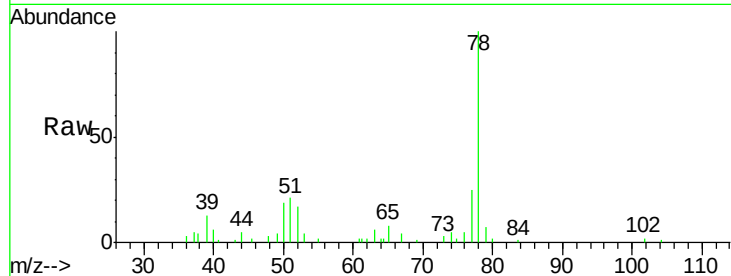
77 24.5 19.3 28.9

Manual Integrations

APPROVED

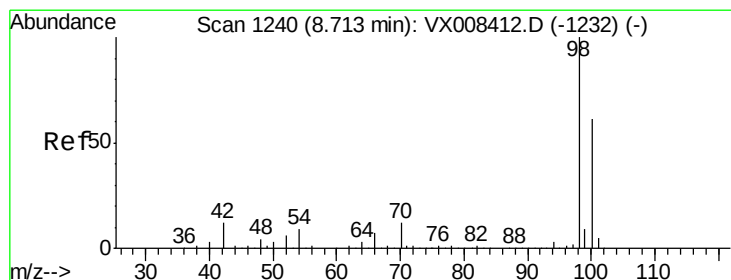
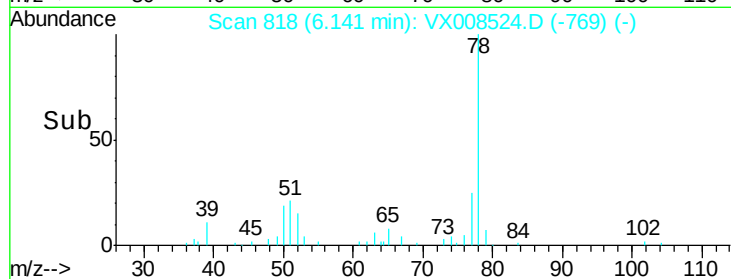
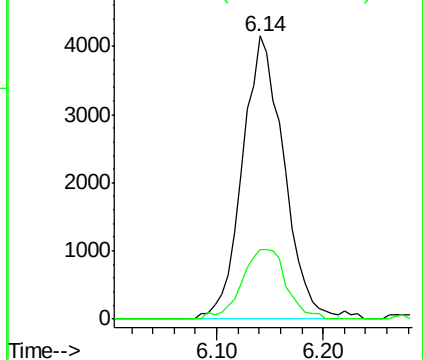
MMDadoda

3/29/2019 10:52:08 AM



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 48.110 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008524.D

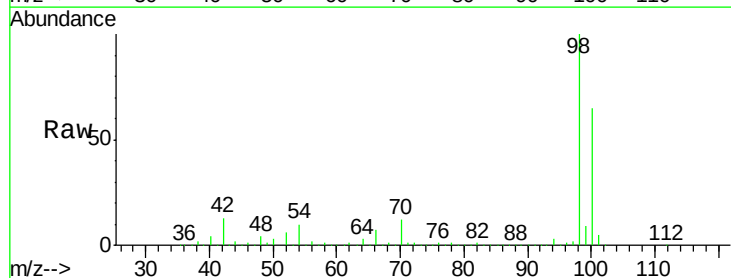
Acq: 28 Mar 2019 17:00

Tgt Ion: 98 Resp: 481205

Ion Ratio Lower Upper

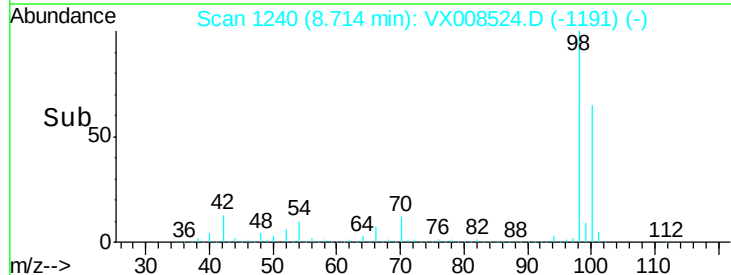
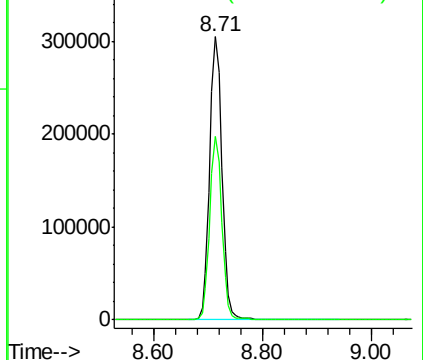
98 100

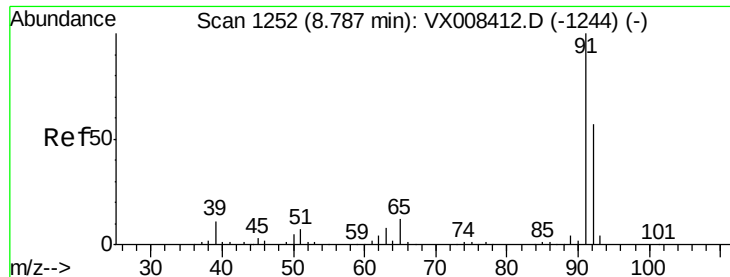
100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 8.918 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008524.D

Acq: 28 Mar 2019 17:00

Instrument :

MSVOA_X

ClientSampleId :

TW-1

Tot Ion: 92 Resp: 65298

Ion Ratio Lower Upper

92 100

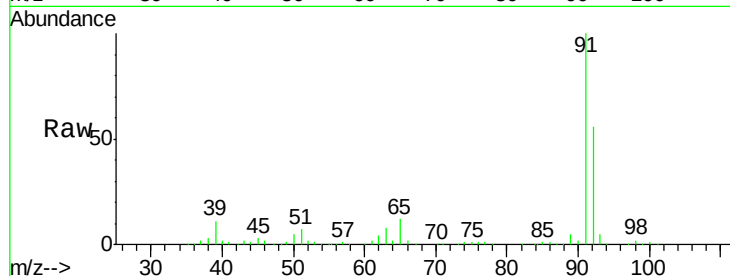
91 176.3 140.2 210.4

Manual Integrations

APPROVED

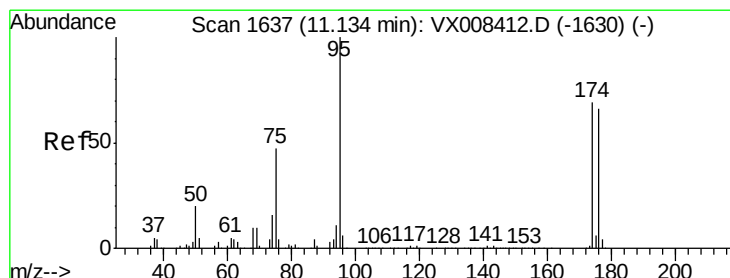
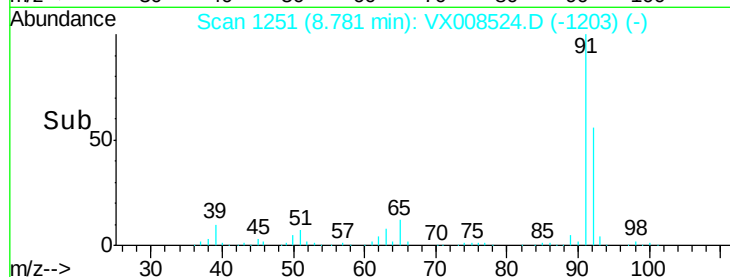
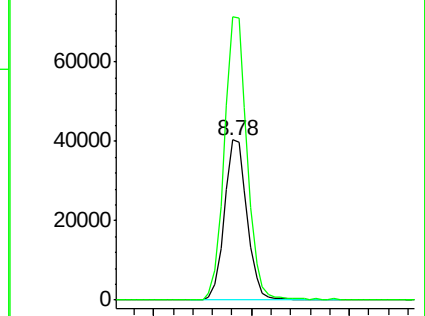
MMDadoda

3/29/2019 10:52:08 AM



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.780 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008524.D

Acq: 28 Mar 2019 17:00

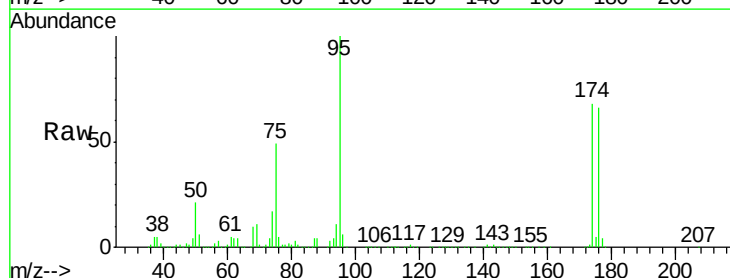
Tgt Ion: 95 Resp: 165977

Ion Ratio Lower Upper

95 100

174 73.1 0.0 147.2

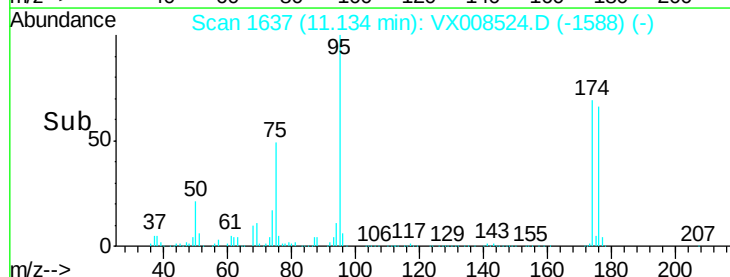
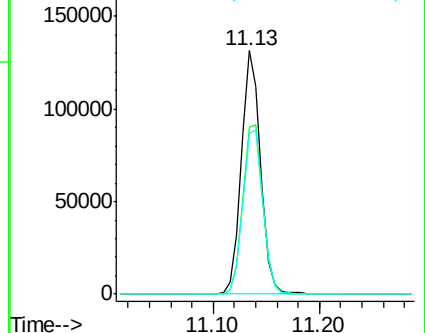
176 71.1 0.0 142.4

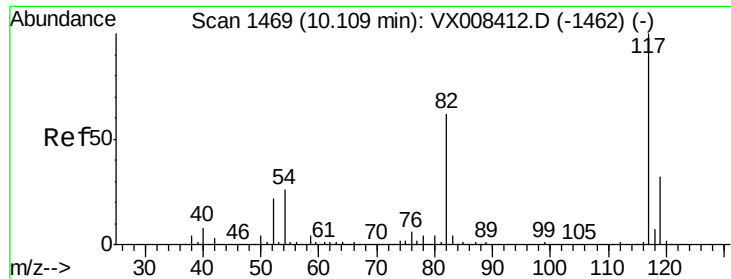


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





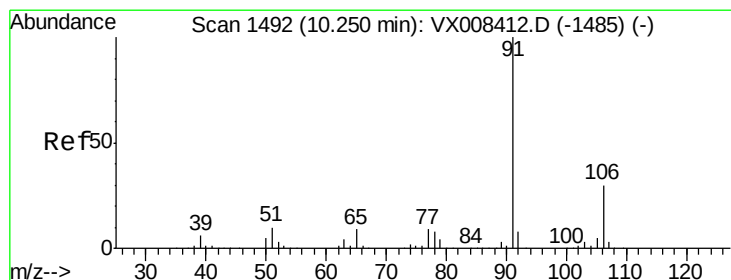
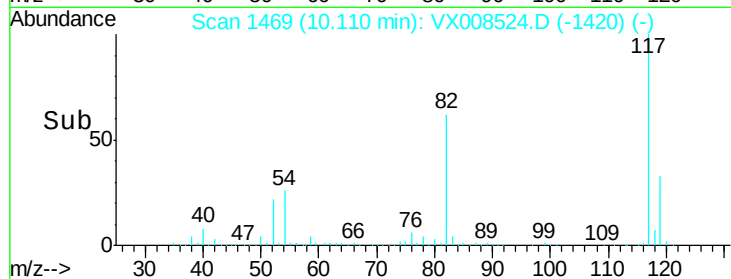
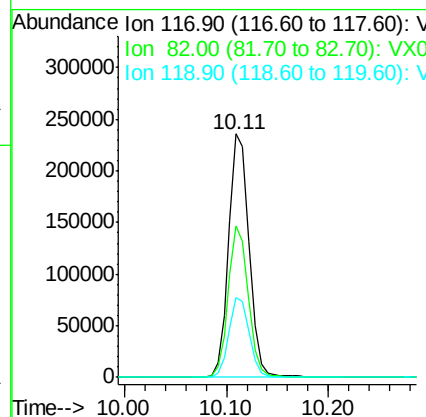
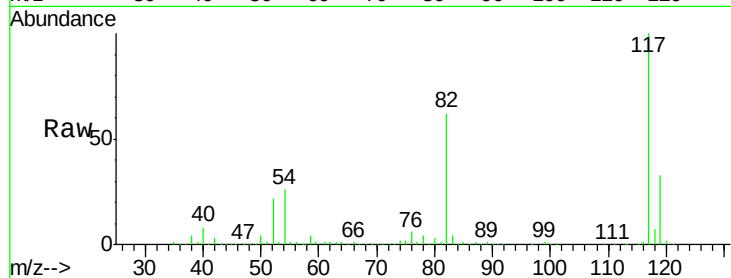
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampleId :
TW-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.2	49.4	74.2
119	32.6	25.4	38.0

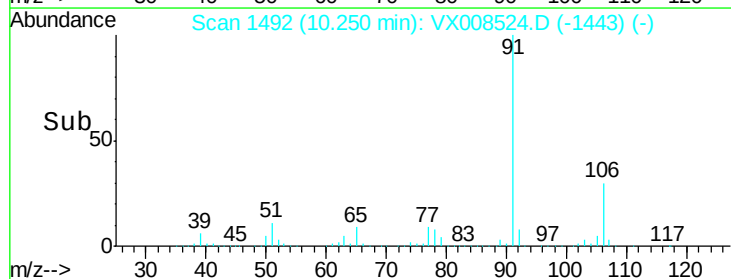
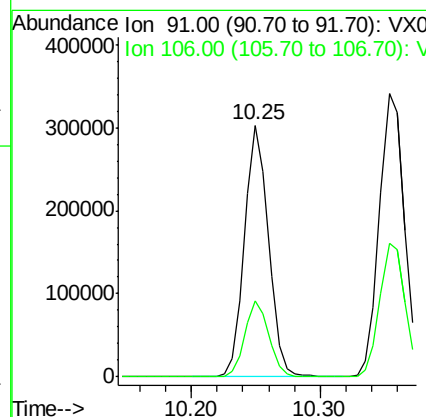
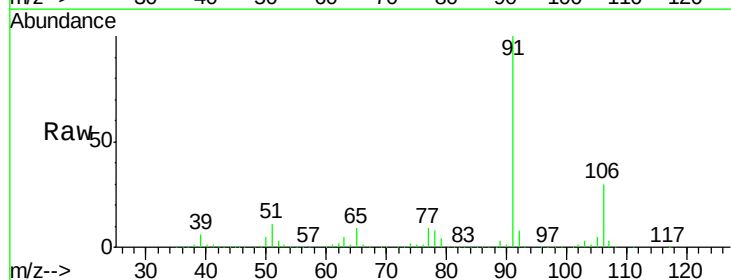
Manual Integrations
APPROVED

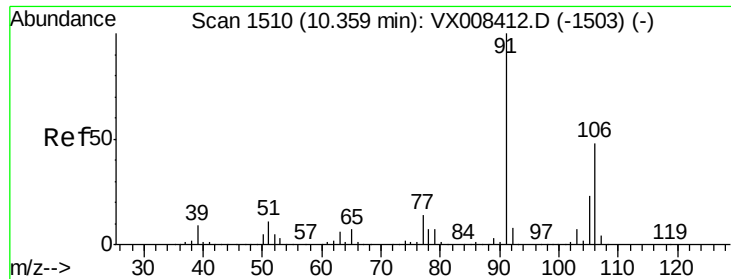
MMDadoda
3/29/2019 10:52:08 AM



#67
Ethyl Benzene
Concen: 28.921 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.0	36.0





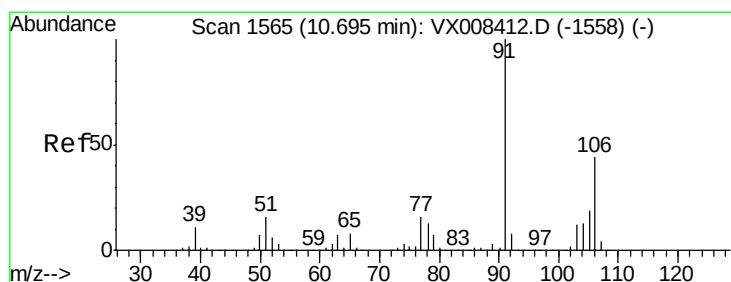
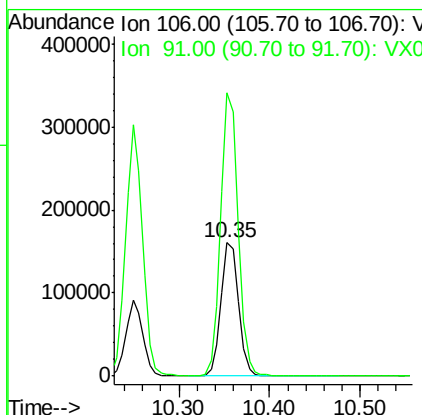
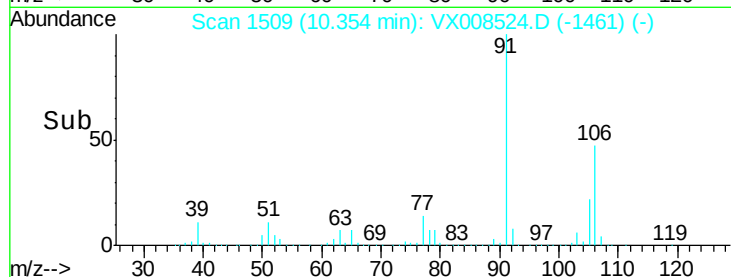
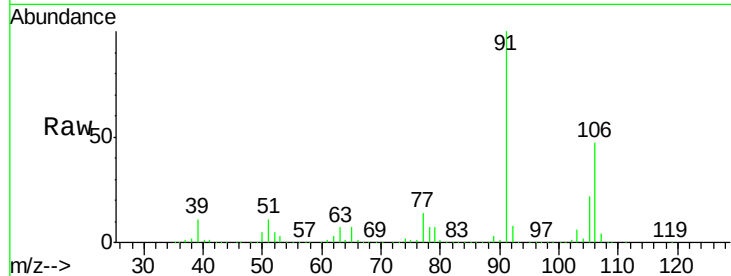
#68
m/p-Xylenes
Concen: 44.781 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion:106 Resp: 219406
Ion Ratio Lower Upper
106 100
91 209.5 168.6 253.0

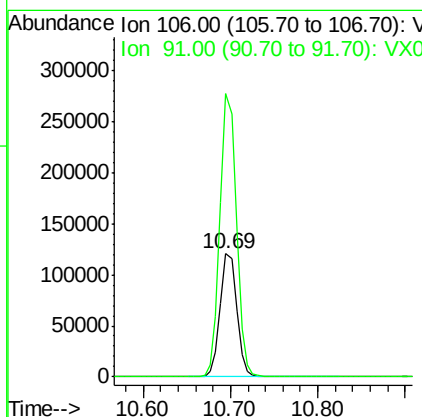
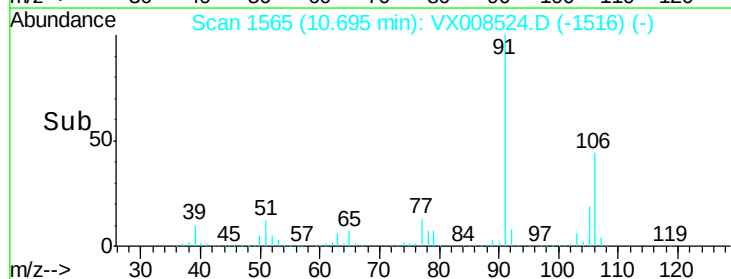
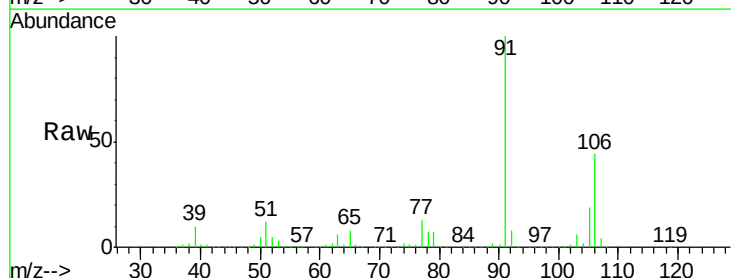
Manual Integrations
APPROVED

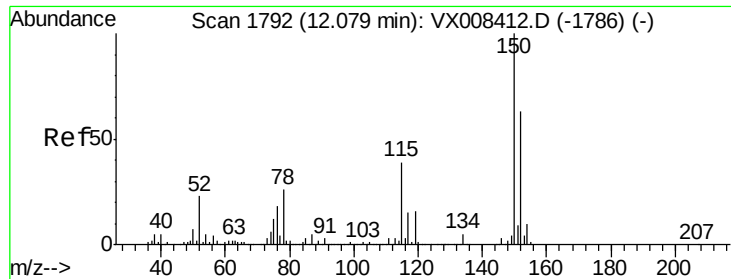
MMDadoda
3/29/2019 10:52:08 AM



#69
o-Xylene
Concen: 33.568 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion:106 Resp: 159603
Ion Ratio Lower Upper
106 100
91 225.8 111.4 334.2





#72

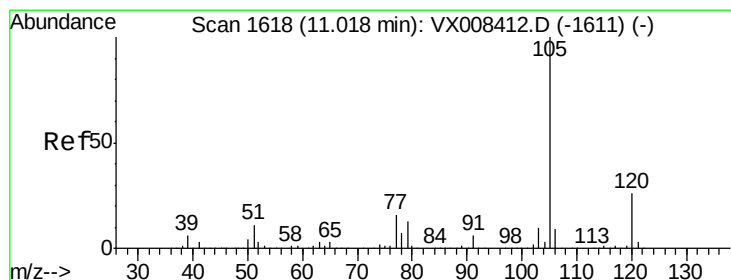
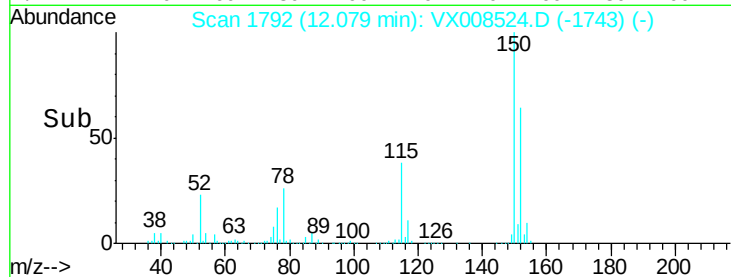
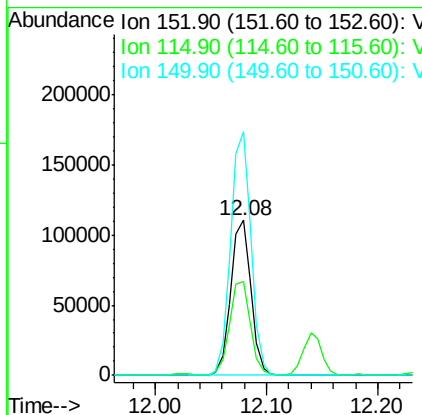
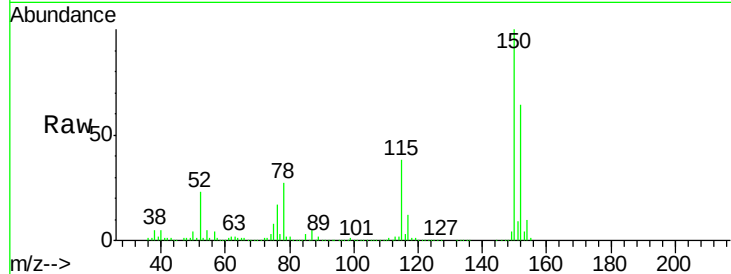
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion	Ratio	Resp	Lower	Upper
152	100	138446		
115	62.1	43.5	130.5	
150	158.1	0.0	348.8	

Manual Integrations
APPROVED

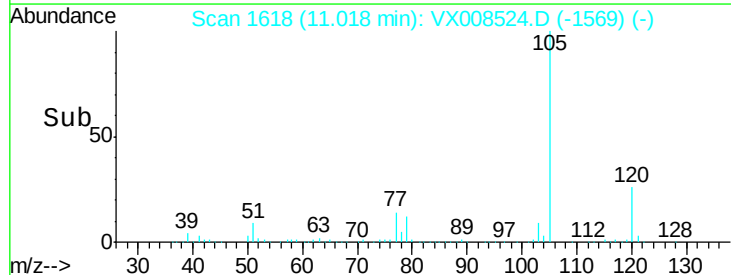
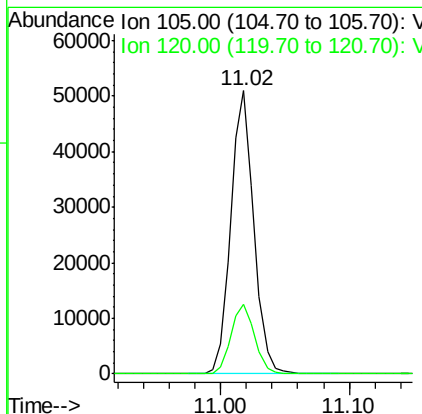
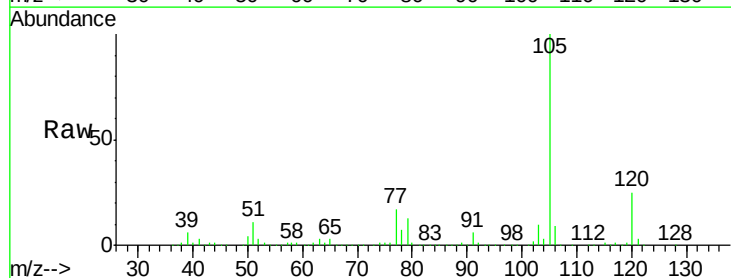
MMDadoda
3/29/2019 10:52:08 AM

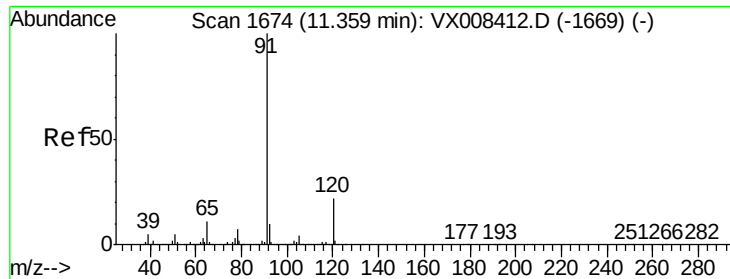


#73

Isopropylbenzene
Concen: 5.634 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	63452		
120	25.4	12.9	38.7	





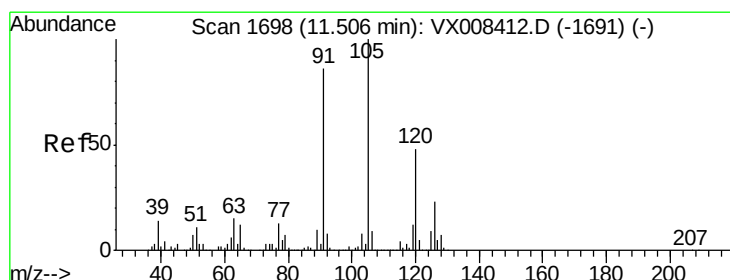
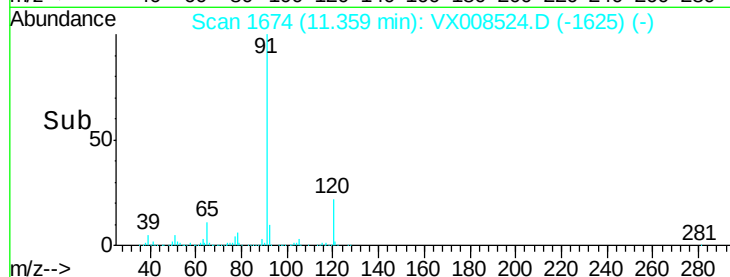
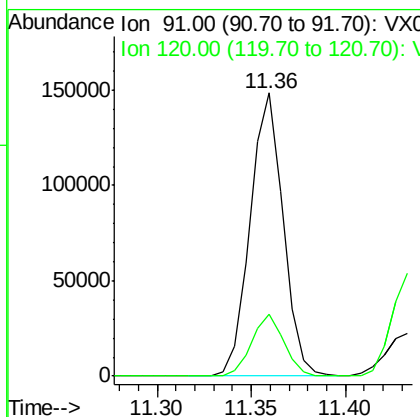
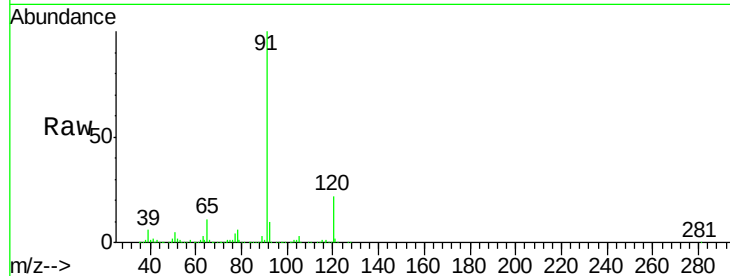
#78
n-propylbenzene
Concen: 13.684 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion: 91 Resp: 180543
Ion Ratio Lower Upper
91 100
120 21.5 10.8 32.4

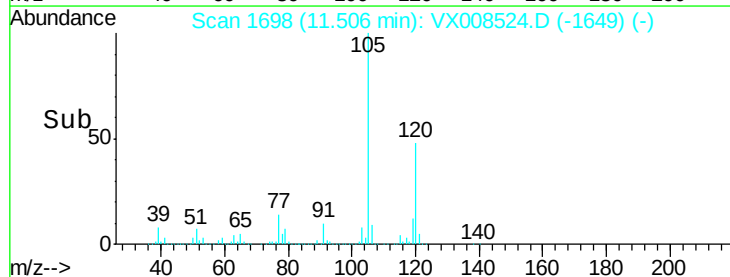
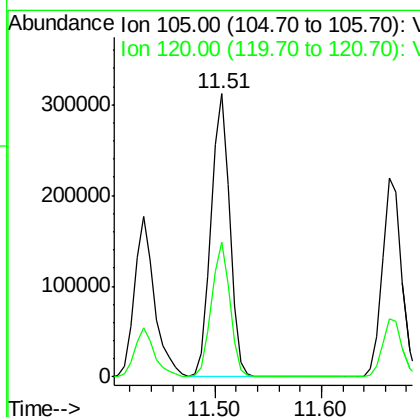
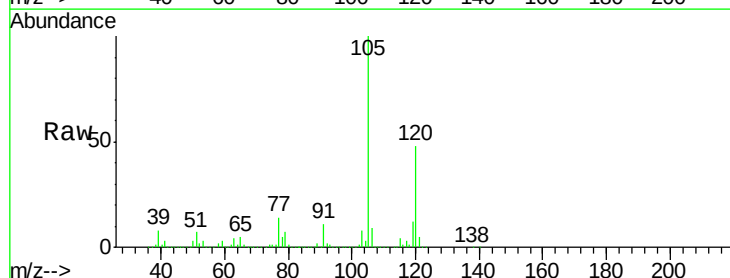
Manual Integrations
APPROVED

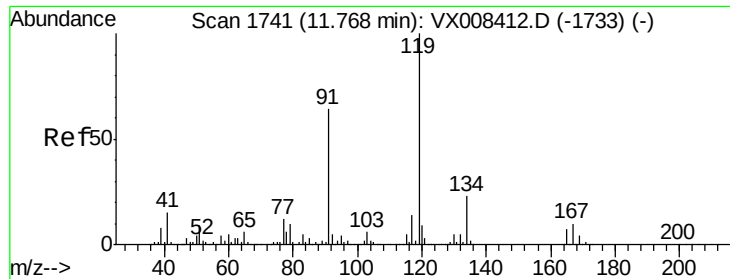
MMDadoda
3/29/2019 10:52:08 AM



#80
1,3,5-Trimethylbenzene
Concen: 39.168 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion: 105 Resp: 372970
Ion Ratio Lower Upper
105 100
120 46.9 23.4 70.3





#83

tert-Butylbenzene

Concen: 3.967 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX008524.D

Acq: 28 Mar 2019 17:00

Instrument :

MSVOA_X

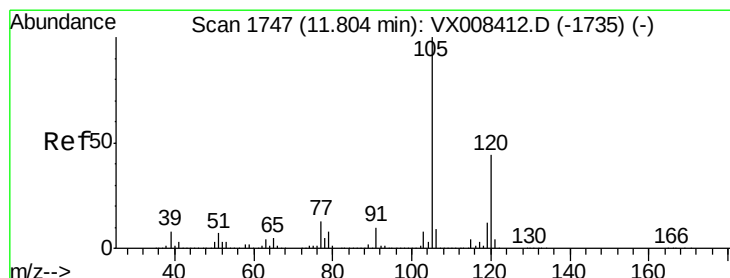
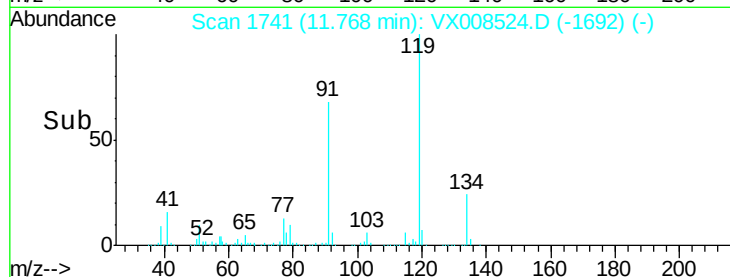
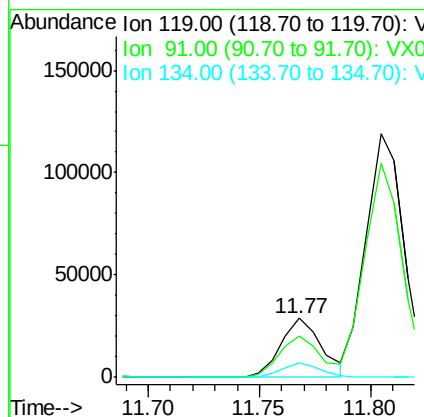
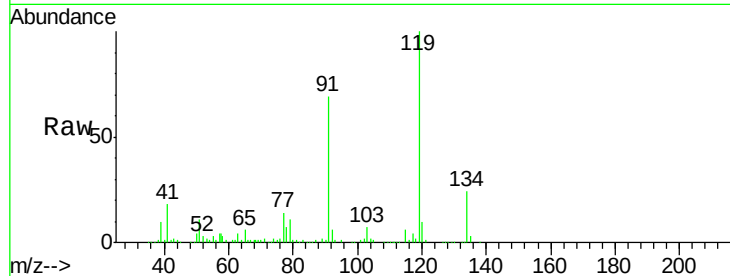
ClientSampleId :

TW-1

Tot Ion:	119	Resp:	36449
Ion	Ratio	Lower	Upper
119	100		
91	72.4	30.1	90.3
134	23.5	10.9	32.9

Manual Integrations
APPROVED

MMDadoda
3/29/2019 10:52:08 AM



#84

1,2,4-Trimethylbenzene

Concen: 122.413 ug/l

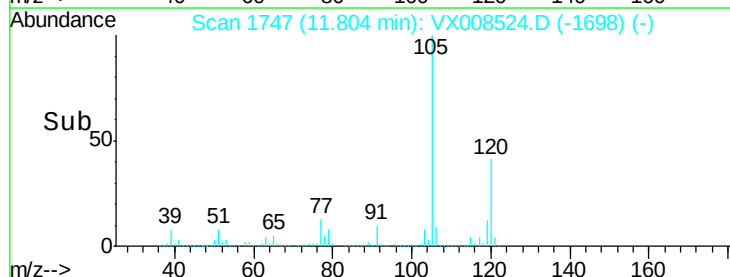
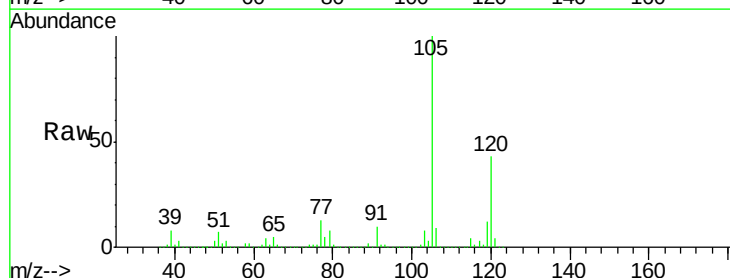
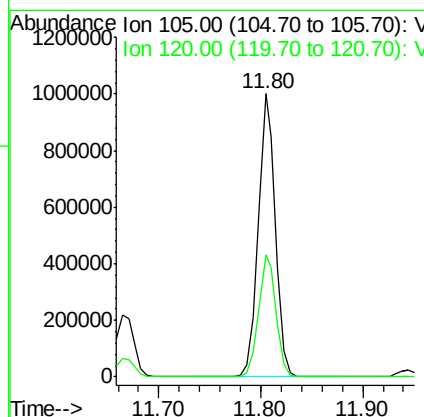
RT: 11.80 min Scan# 1747

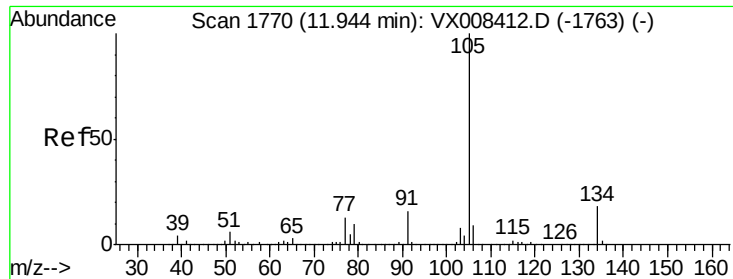
Delta R.T. 0.00 min

Lab File: VX008524.D

Acq: 28 Mar 2019 17:00

Tgt Ion:	105	Resp:	1178988
Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.6	65.0





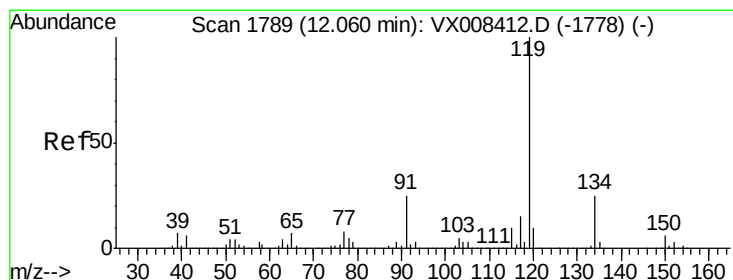
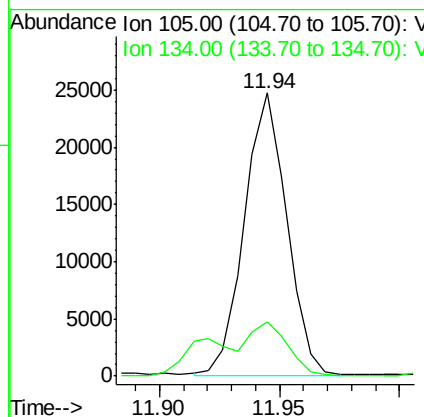
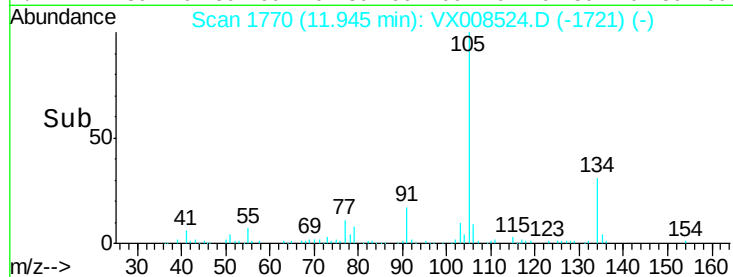
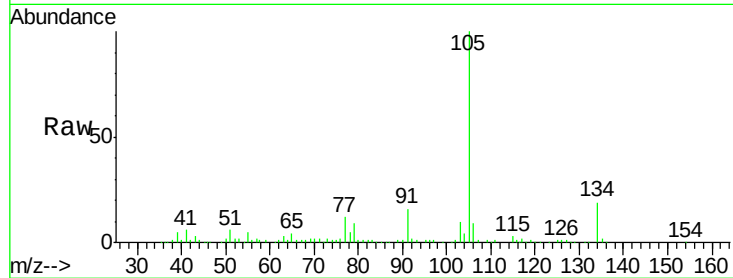
#85
 sec-Butylbenzene
 Concen: 2.777 ug/l m
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX008524.D
 Acq: 28 Mar 2019 17:00

Instrument :
 MSVOA_X
 ClientSampled :
 TW-1

Tot Ion	Ratio	Lower	Upper
105	100		
134	0.0	9.3	28.0#

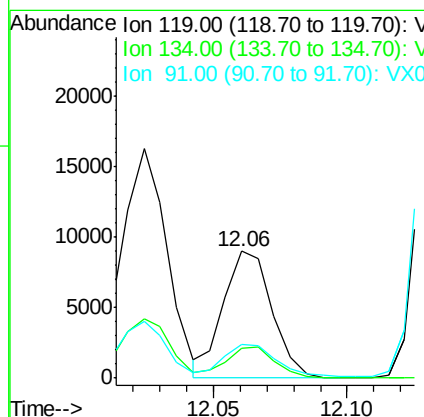
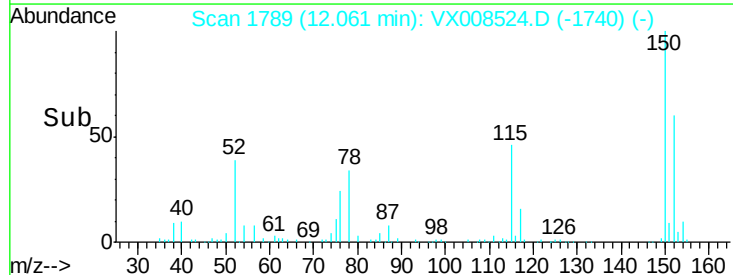
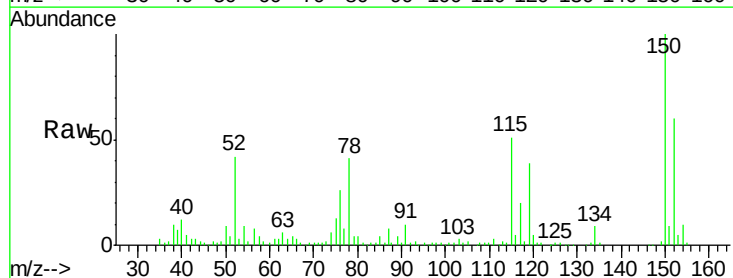
Manual Integrations
 APPROVED

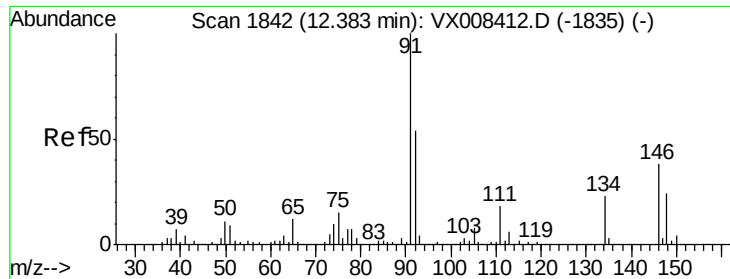
MMDadoda
 3/29/2019 10:52:08 AM



#86
 p-Isopropyltoluene
 Concen: 1.190 ug/l m
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX008524.D
 Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Lower	Upper
119	100		
134	46.9	12.8	38.4#
91	42.1	12.4	37.0#





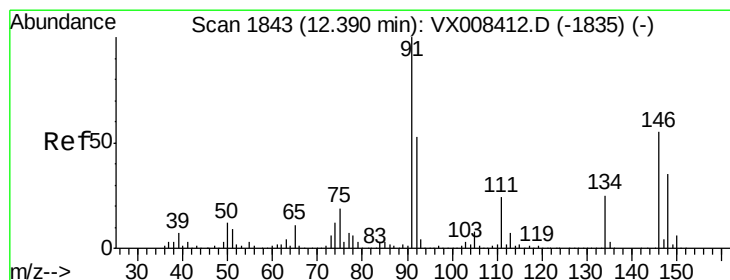
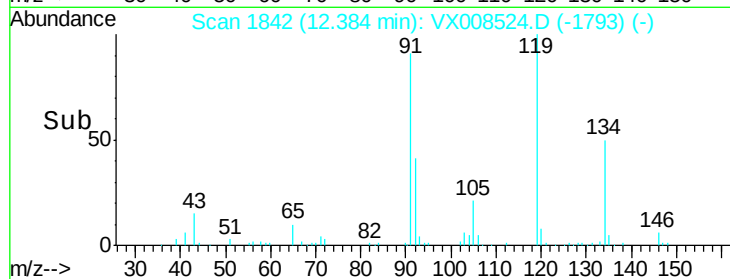
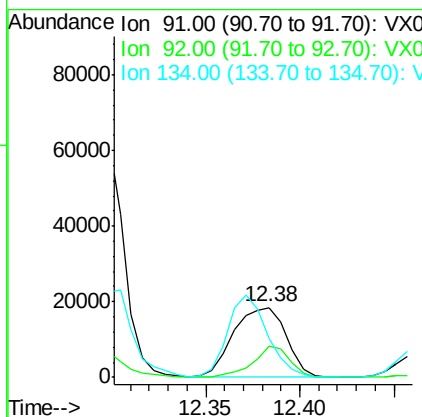
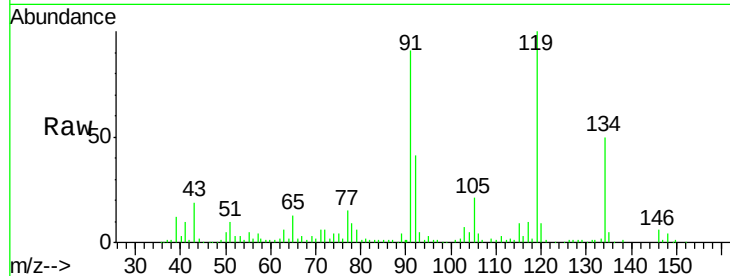
#89
n-Butylbenzene
Concen: 3.870 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tot Ion	Ratio	Lower	Upper
91	100		
92	31.3	26.5	79.5
134	90.8	11.8	35.4#

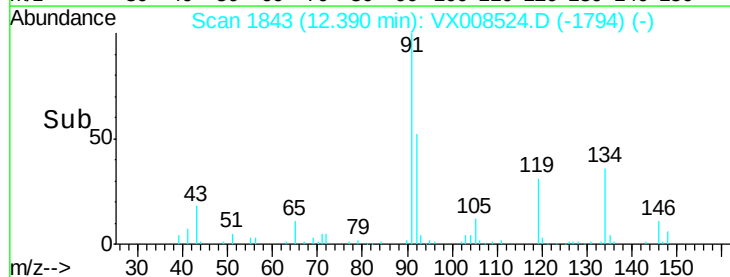
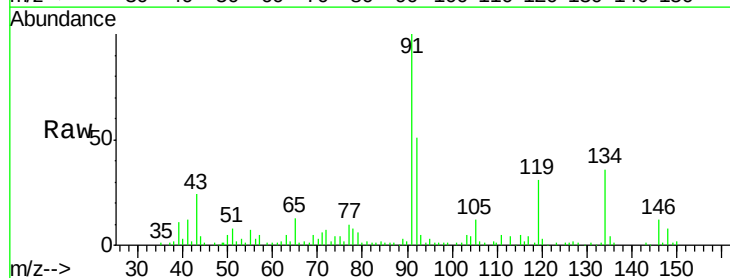
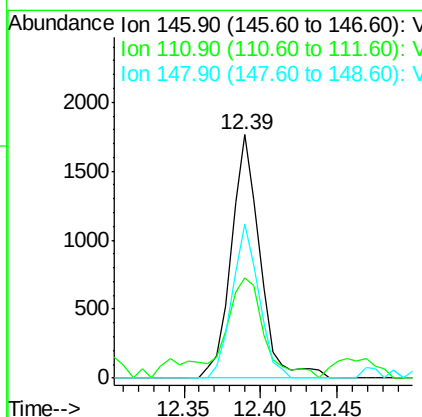
Manual Integrations
APPROVED

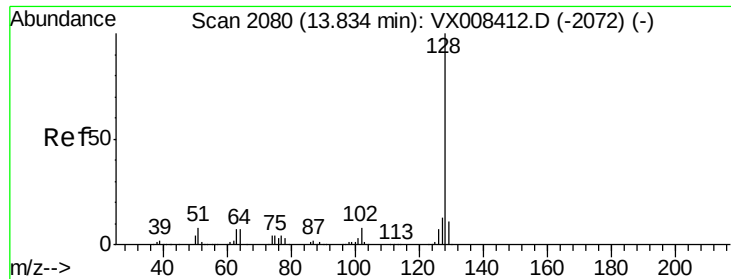
MMDadoda
3/29/2019 10:52:08 AM



#91
1,2-Dichlorobenzene
Concen: 0.470 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.0	21.6	64.6
148	58.7	31.9	95.7





#95
Naphthalene
Concen: 1.875 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008524.D
Acq: 28 Mar 2019 17:00

Instrument :
MSVOA_X
ClientSampleId :
TW-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.9	10.4	15.6#
129	18.4	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
3/29/2019 10:52:08 AM

