

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
 Data File : VW007604.D
 Acq On : 16 Dec 2018 02:31
 Operator : SY/AP
 Sample : J6378-10
 Misc : 2.99G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0006-01

Manual Integrations
 APPROVED

apatel
 12/17/2018 4:40:35 PM

Quant Time: Dec 17 16:49:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	40088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	63332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	26878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	6616	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	33574	75.49	ug/l	0.00
Spiked Amount			Recovery	=	150.98%	
35) Dibromofluoromethane	7.88	113	26032	67.90	ug/l	0.00
Spiked Amount			Recovery	=	135.80%	
50) Toluene-d8	10.32	98	61696	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	
62) 4-Bromofluorobenzene	12.62	95	9631	18.22	ug/l	0.00
Spiked Amount			Recovery	=	36.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	21445	276.056	ug/l	92
25) 2-Butanone	7.17	43	11582	114.203	ug/l #	89
31) Cyclohexane	7.95	56	200286	289.890	ug/l	96
39) Methylcyclohexane	9.34	83	275099	393.236	ug/l	92
40) Benzene	8.32	78	254883	158.972	ug/l	99
52) Toluene	10.39	92	9277	8.941	ug/l	97
65) Chlorobenzene	11.66	112	1390119	2481.367	ug/l	95
67) Ethyl Benzene	11.74	91	29312m	30.433	ug/l	
68) m/p-Xylenes	11.85	106	13532744	36141.093	ug/l #	71
69) o-Xylene	12.17	106	42946m	122.807	ug/l	
73) Isopropylbenzene	12.47	105	134943	266.189	ug/l	98
78) n-propylbenzene	12.81	91	194219	340.426	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	299937	704.147	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	974087	2222.257	ug/l	98
85) sec-Butylbenzene	13.39	105	17710m	34.565	ug/l	
86) p-Isopropyltoluene	13.51	119	140851	306.000	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	111583	498.045	ug/l	96
88) 1,4-Dichlorobenzene	13.58	146	923130	4098.496	ug/l	97
89) n-Butylbenzene	13.83	91	23225	54.427	ug/l #	71
95) Naphthalene	15.37	128	356570	1349.714	ug/l	97

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

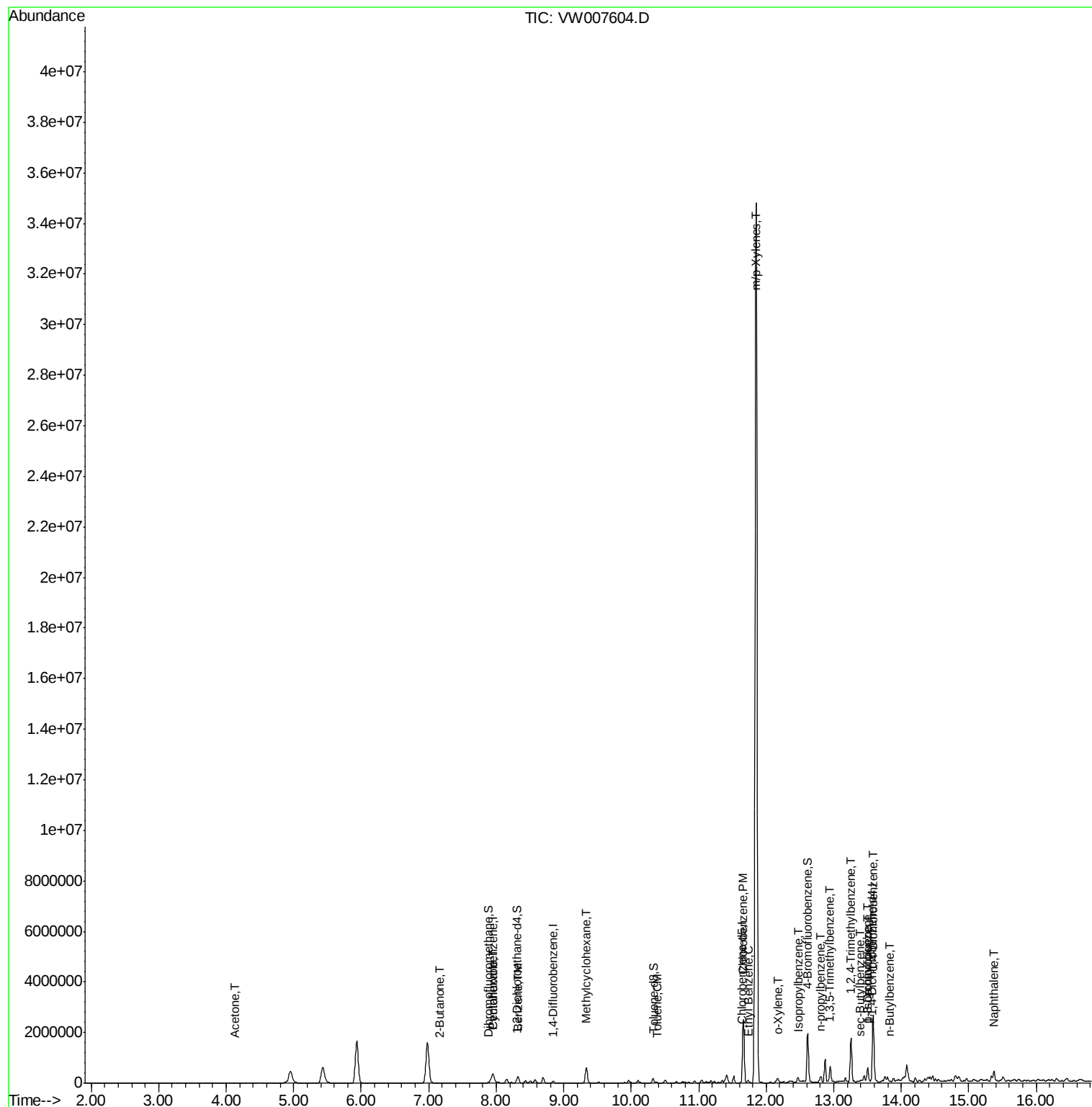
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
Data File : VW007604.D
Acq On : 16 Dec 2018 02:31
Operator : SY/AP
Sample : J6378-10
Misc : 2.99G/5ML/MSVOA_W/SOIL
ALS Vial : 14 Sample Multiplier: 1

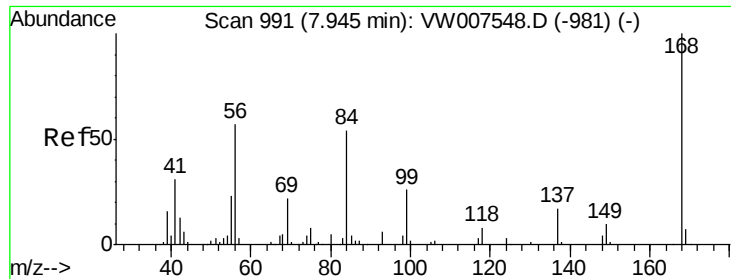
Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Quant Time: Dec 17 16:49:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 11 02:58:16 2018
Response via : Initial Calibration

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:35 PM





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion:168 Resp: 40088

Ion Ratio Lower Upper

168 100

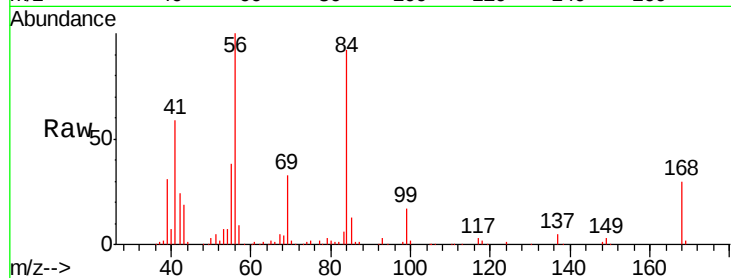
99 58.6 48.3 72.5

Manual Integrations

APPROVED

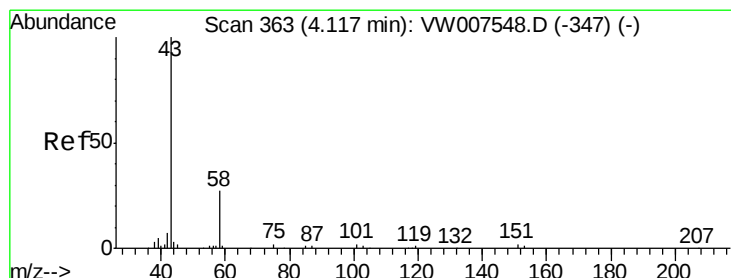
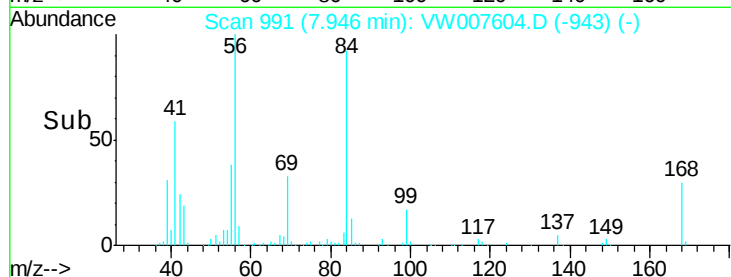
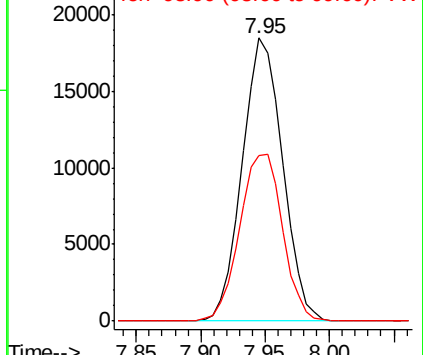
apatel

12/17/2018 4:40:35 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 276.056 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007604.D

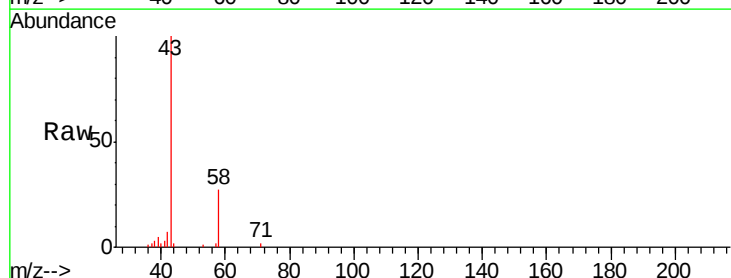
Acq: 16 Dec 2018 02:31

Tgt Ion: 43 Resp: 21445

Ion Ratio Lower Upper

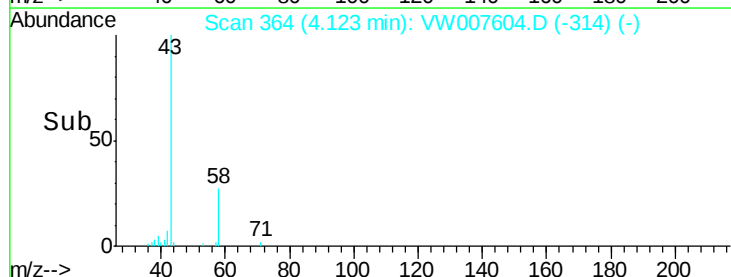
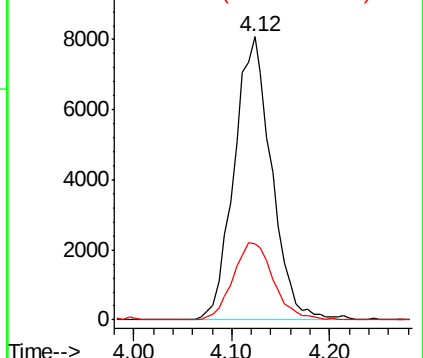
43 100

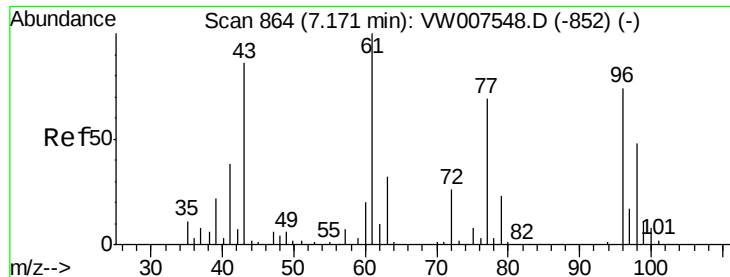
58 26.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#25

2-Butanone

Concen: 114.203 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion: 43 Resp: 11582

Ion Ratio Lower Upper

43 100

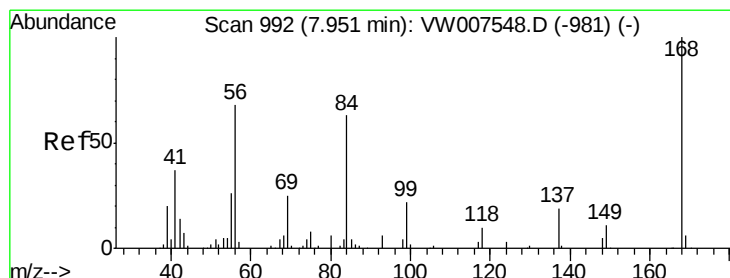
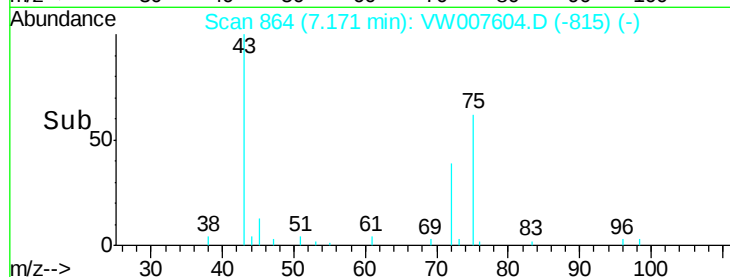
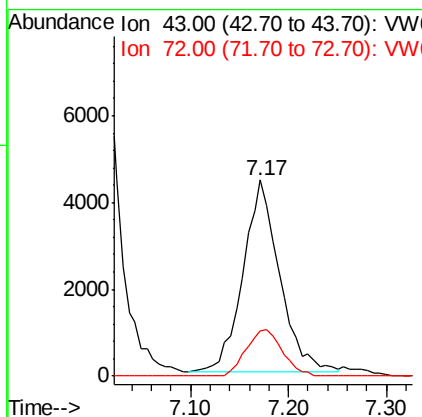
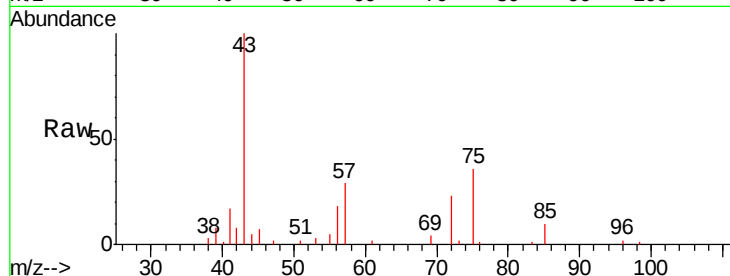
72 23.3 23.4 35.2#

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:35 PM



#31

Cyclohexane

Concen: 289.890 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

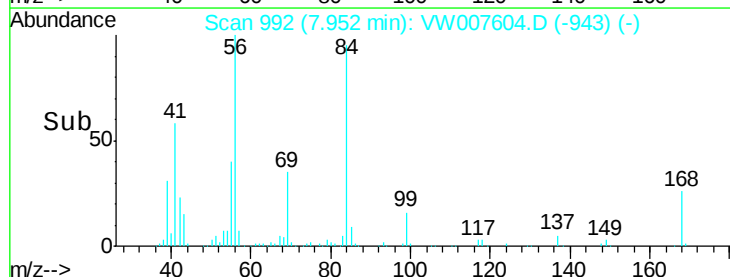
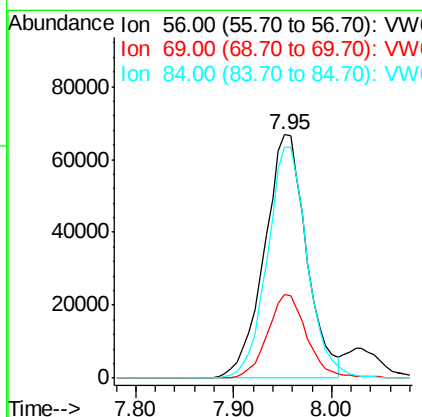
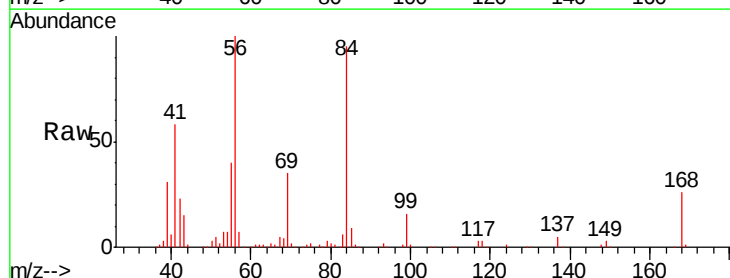
Tgt Ion: 56 Resp: 200286

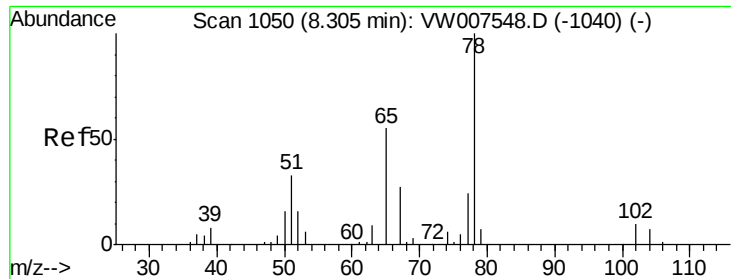
Ion Ratio Lower Upper

56 100

69 34.5 28.9 43.3

84 94.6 71.8 107.6





#33

1,2-Dichloroethane-d4

Concen: 75.491 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion: 65 Resp: 33574

Ion Ratio Lower Upper

65 100

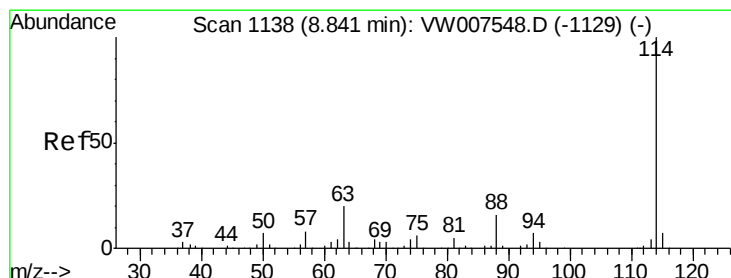
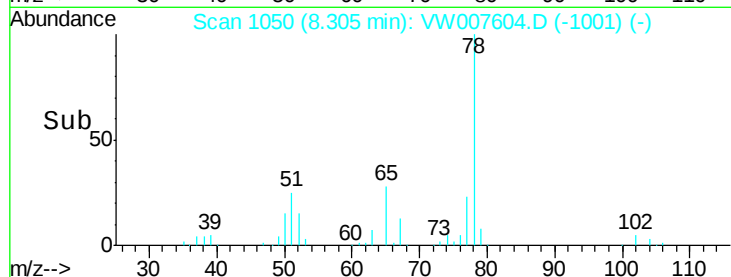
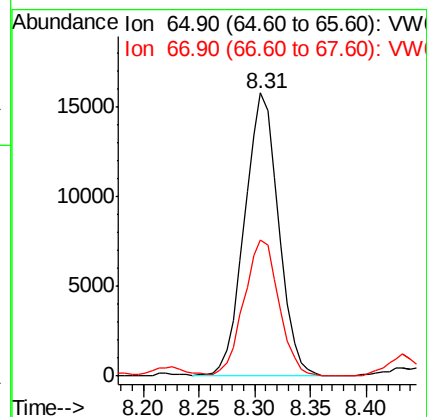
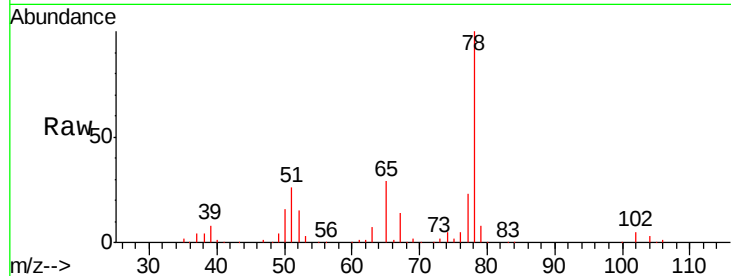
67 49.7 0.0 101.6

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:35 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

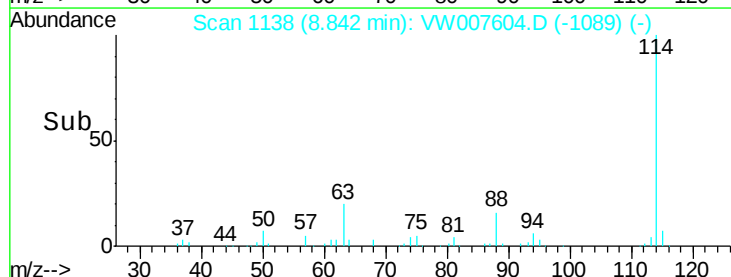
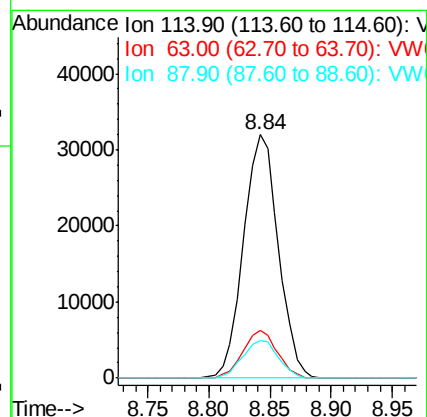
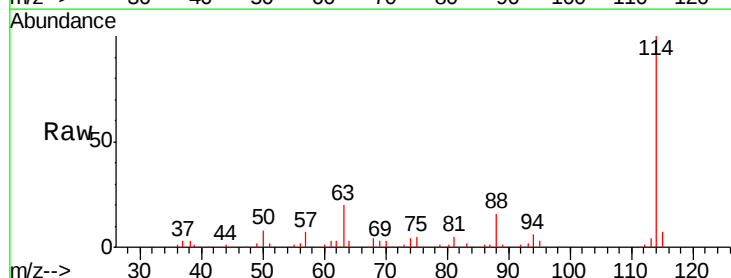
Tgt Ion: 114 Resp: 63332

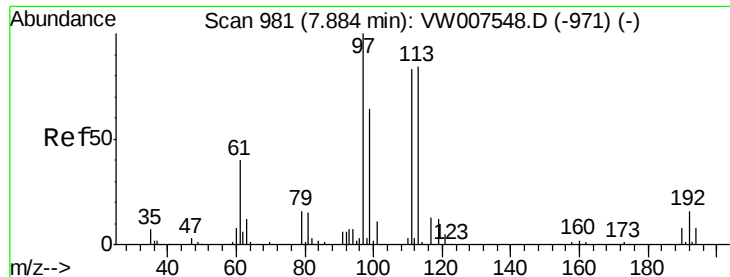
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 67.902 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

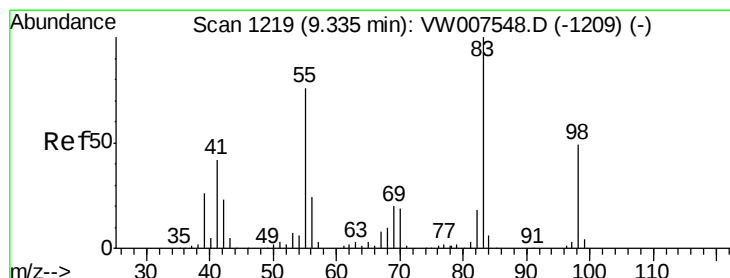
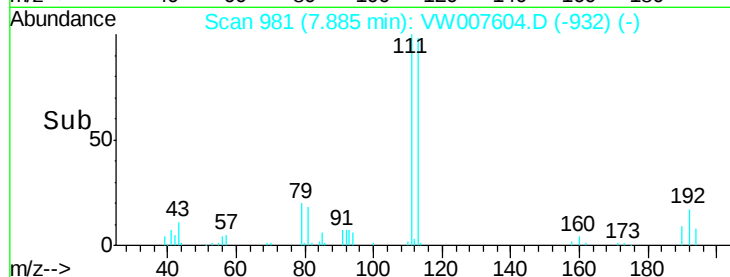
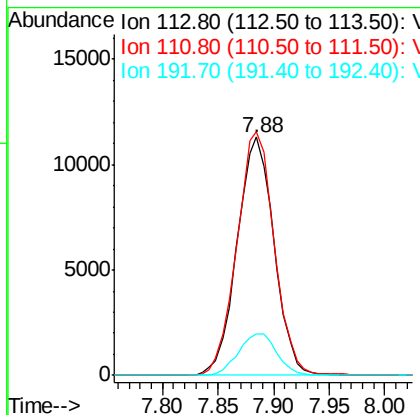
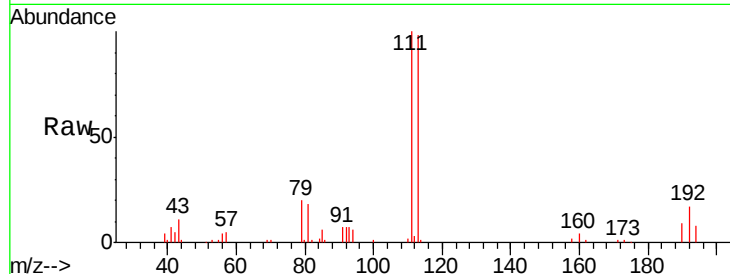
ClientSampleId :

P001-SD012-0006-01

Tgt Ion:	113	Resp:	26032
Ion Ratio	Lower	Upper	
113	100		
111	103.3	81.1	121.7
192	18.0	14.6	21.8

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:35 PM



#39

Methylcyclohexane

Concen: 393.236 ug/l

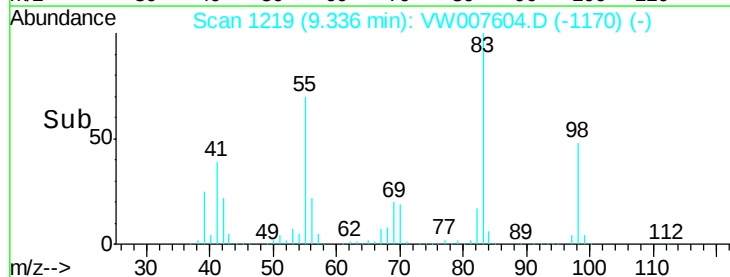
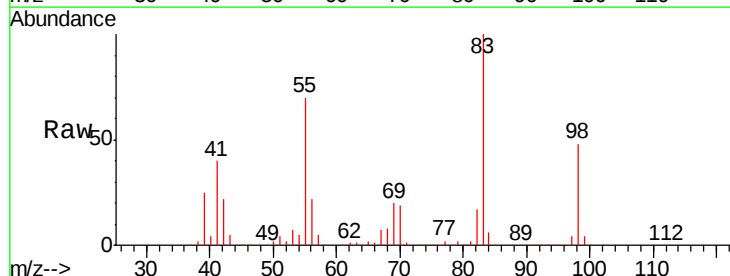
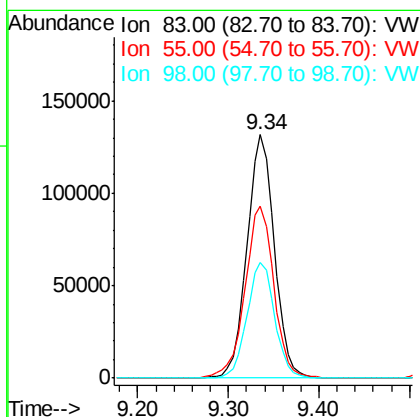
RT: 9.34 min Scan# 1219

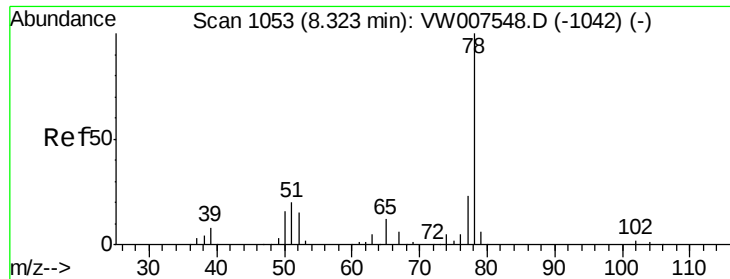
Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Tgt Ion:	83	Resp:	275099
Ion Ratio	Lower	Upper	
83	100		
55	70.3	62.8	94.2
98	47.7	42.2	63.2





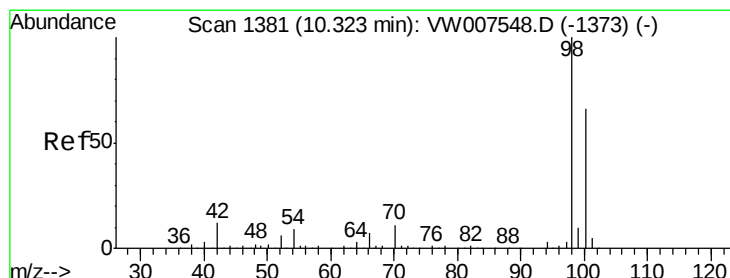
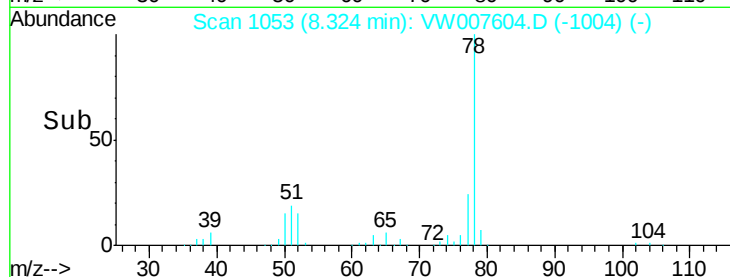
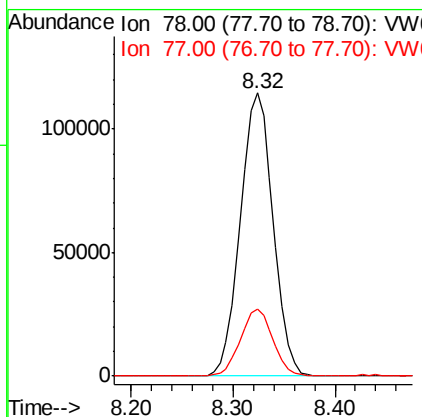
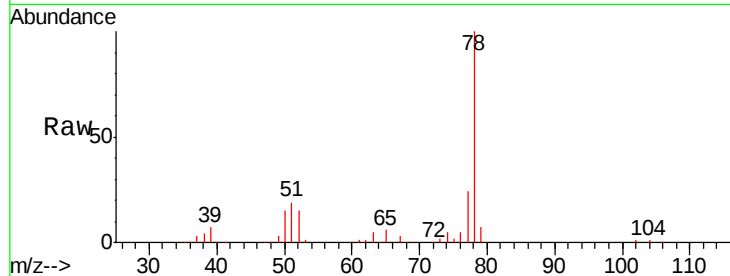
#40
Benzene
Concen: 158.972 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Tgt Ion: 78 Resp: 254883
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2

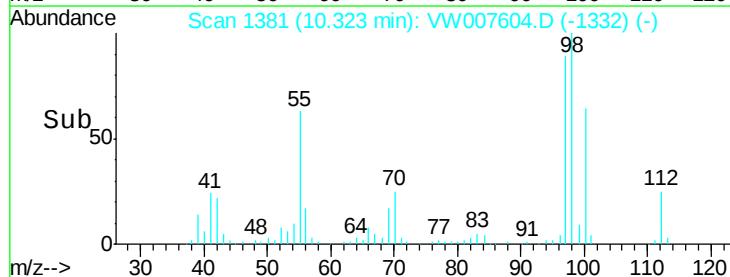
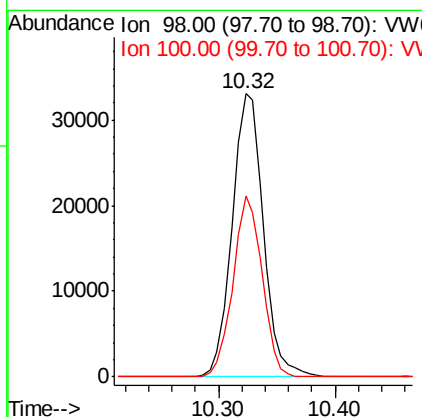
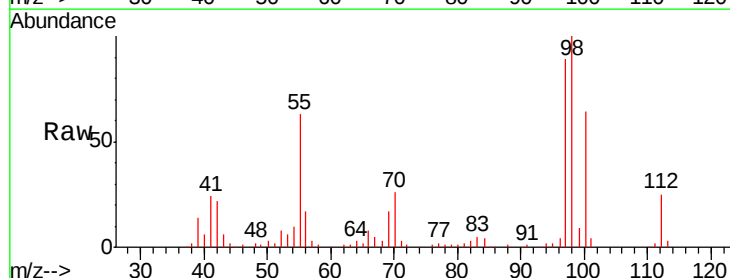
Manual Integrations
APPROVED

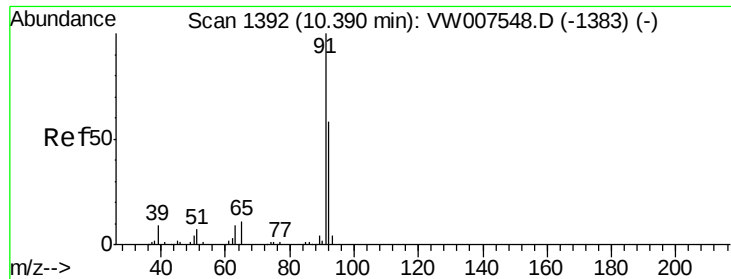
apatel
12/17/2018 4:40:35 PM



#50
Toluene-d8
Concen: 42.921 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Tgt Ion: 98 Resp: 61696
Ion Ratio Lower Upper
98 100
100 59.5 51.8 77.8





#52

Toluene

Concen: 8.941 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion: 92 Resp: 9277

Ion Ratio Lower Upper

92 100

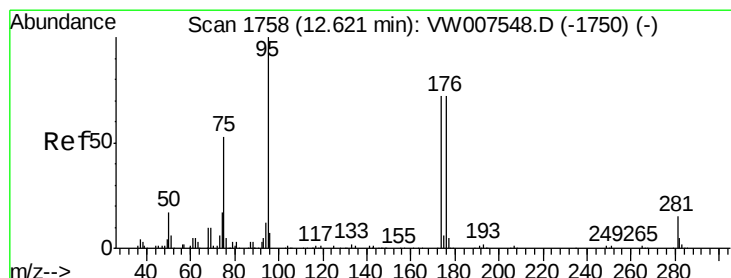
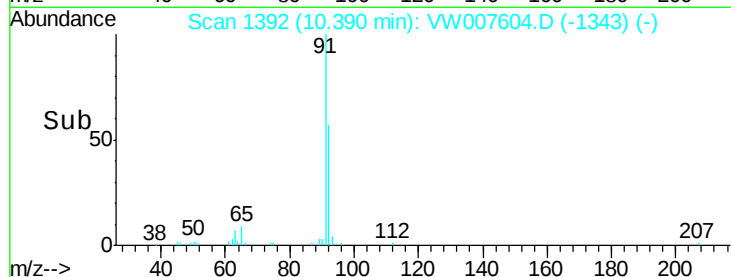
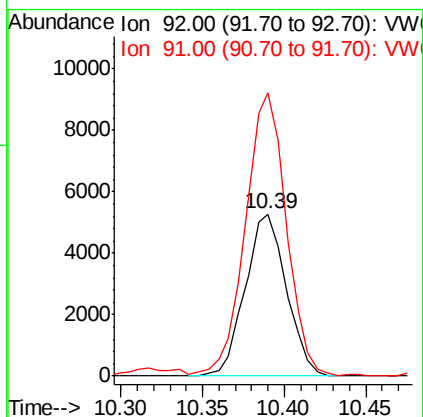
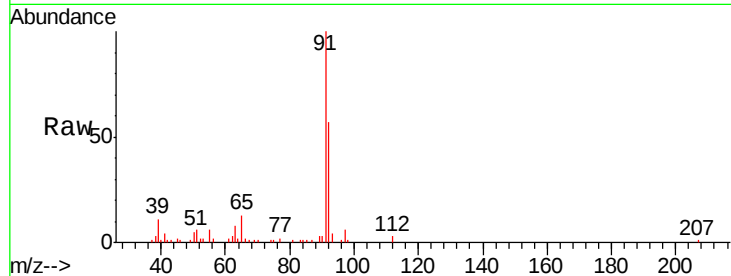
91 173.6 136.2 204.2

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:35 PM



#62

4-Bromofluorobenzene

Concen: 18.223 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

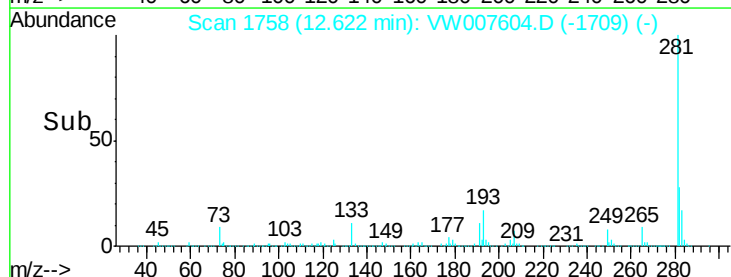
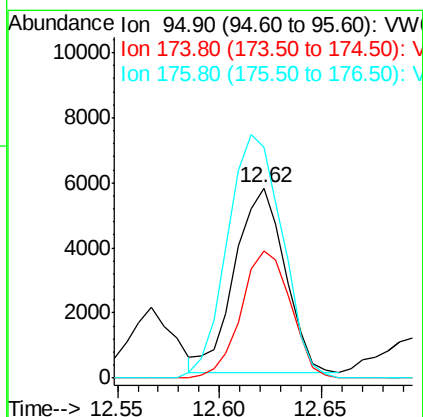
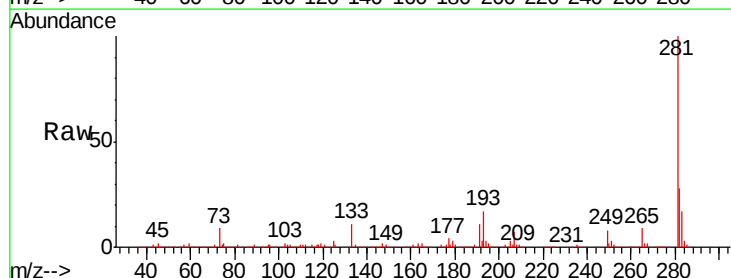
Tgt Ion: 95 Resp: 9631

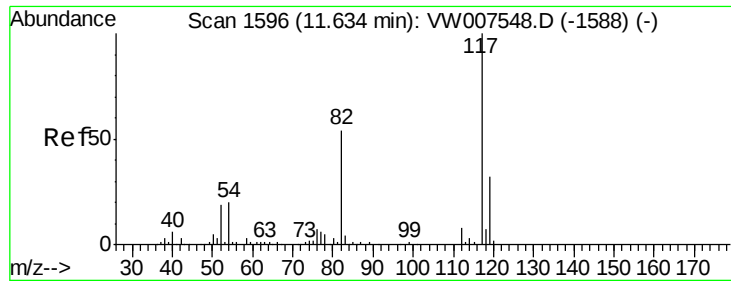
Ion Ratio Lower Upper

95 100

174 68.4 0.0 147.2

176 145.6 0.0 138.8#





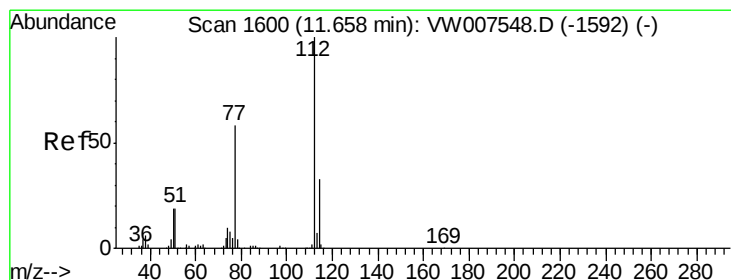
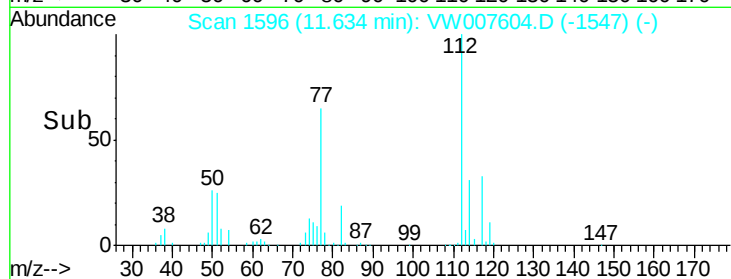
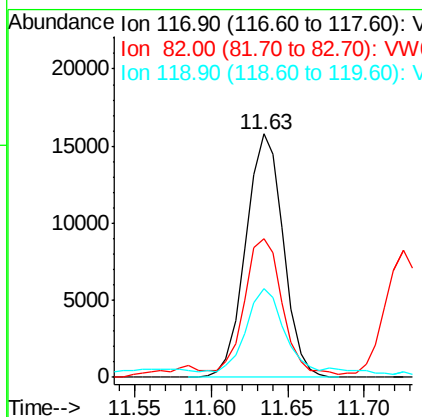
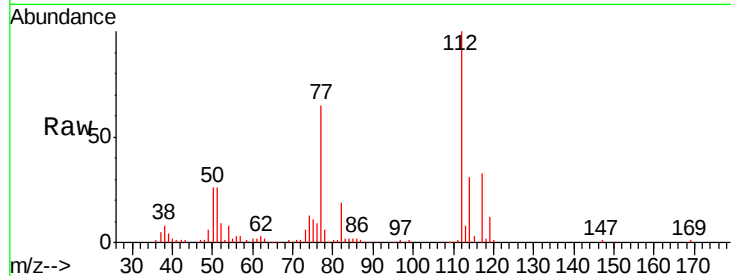
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.2	42.3	63.5
119	33.8	23.0	34.6

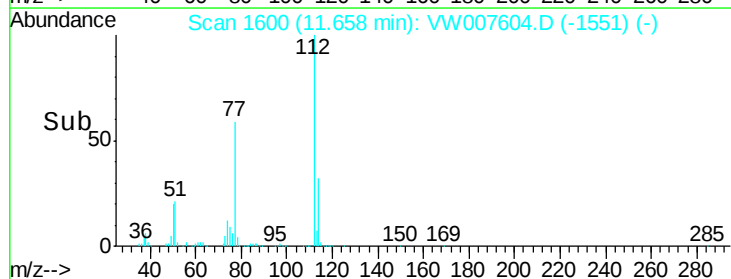
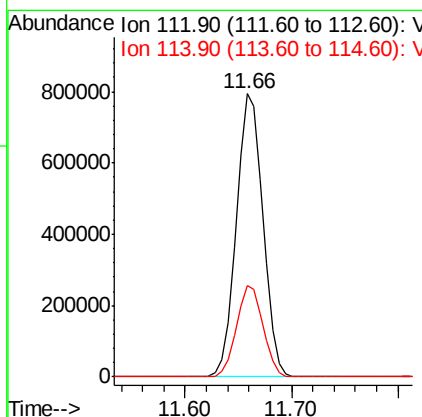
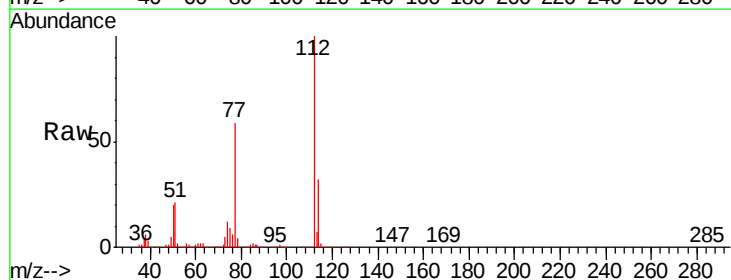
Manual Integrations
APPROVED

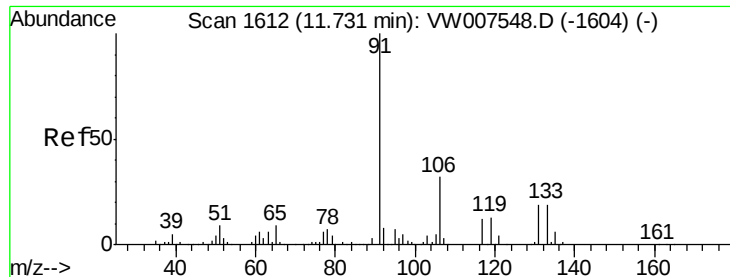
apatel
12/17/2018 4:40:35 PM



#65
Chlorobenzene
Concen: 2481.367 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.8	41.8





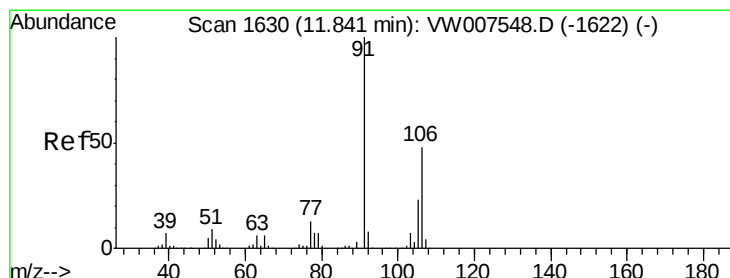
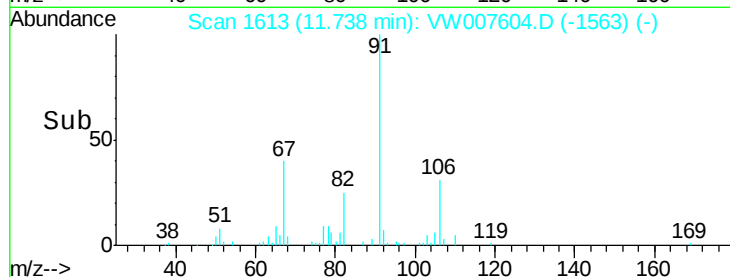
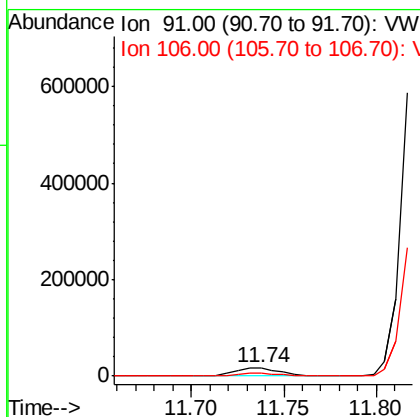
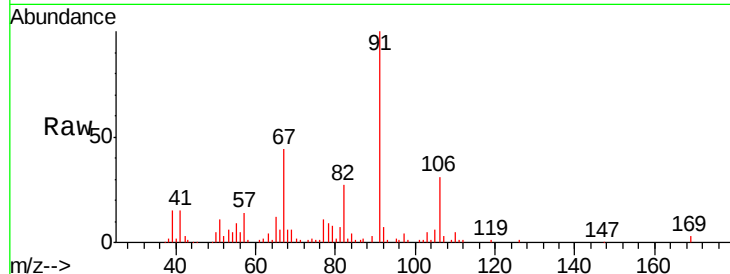
#67
Ethyl Benzene
Concen: 30.433 ug/l m
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Tgt Ion: 91 Resp: 29312
Ion Ratio Lower Upper
91 100
106 31.2 21.8 32.8

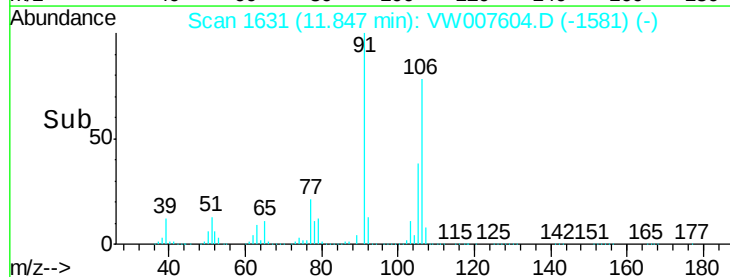
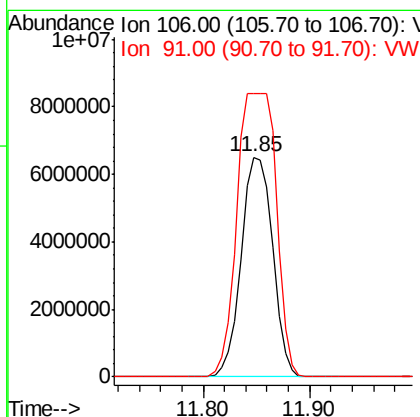
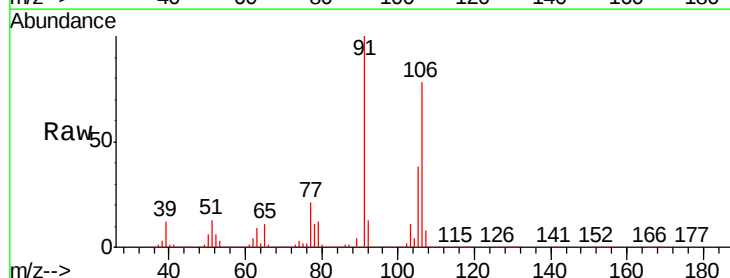
Manual Integrations
APPROVED

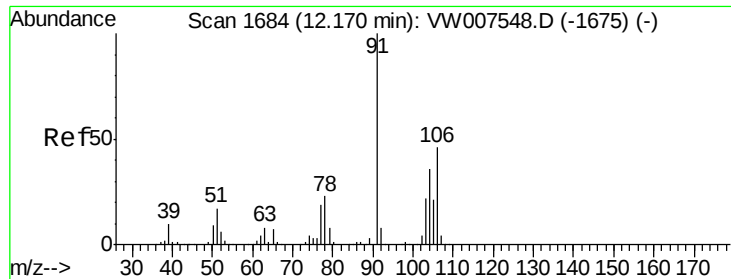
apatel
12/17/2018 4:40:35 PM



#68
m/p-Xylenes
Concen: 36141.093 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Tgt Ion: 106 Resp: 13532744
Ion Ratio Lower Upper
106 100
91 161.0 165.3 247.9#





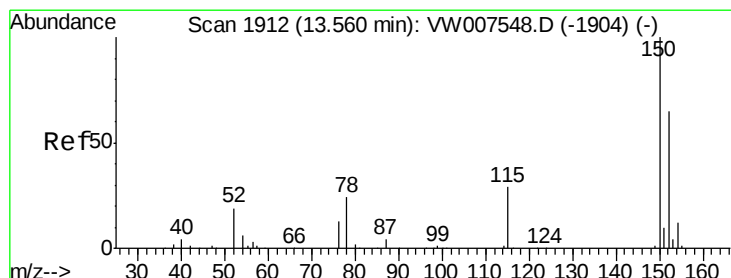
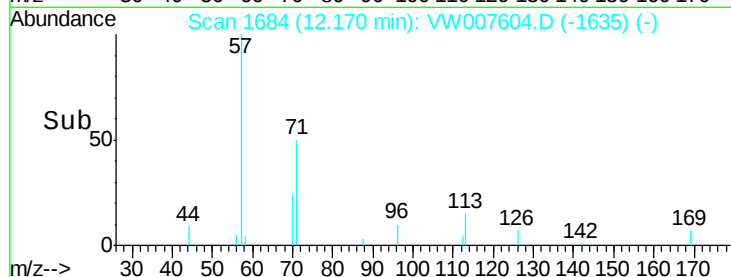
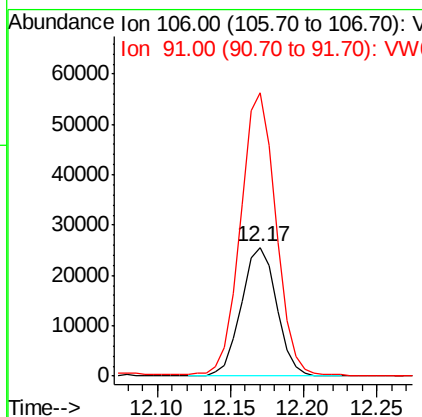
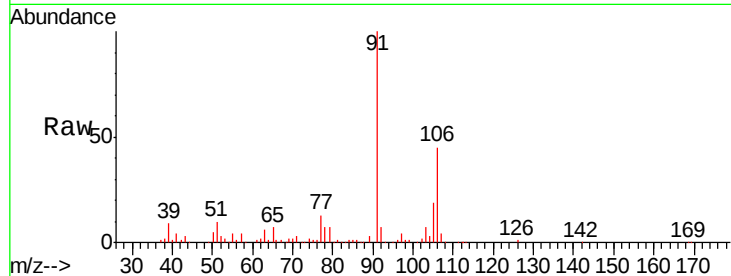
#69
o-Xylene
Concen: 122.807 ug/l m
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Tgt Ion:106 Resp: 42946
Ion Ratio Lower Upper
106 100
91 0.0 106.6 319.8#

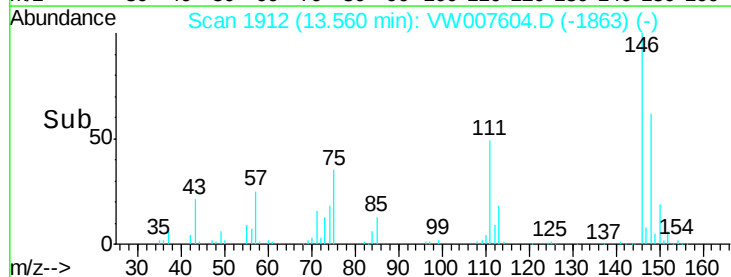
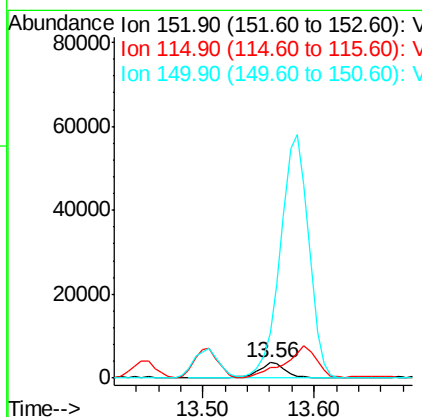
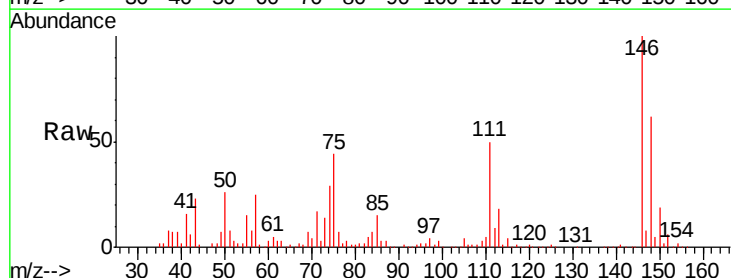
Manual Integrations
APPROVED

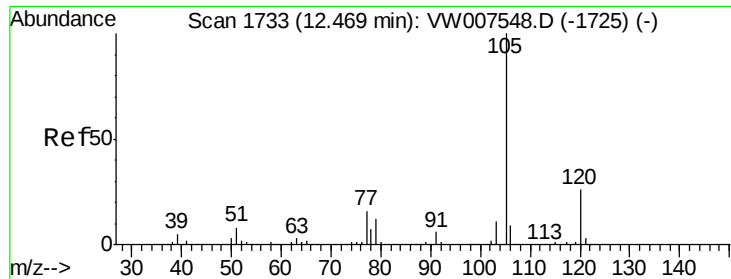
apatel
12/17/2018 4:40:35 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
115 0.0 31.4 94.2#
150 0.0 0.0 358.4





#73

Isopropylbenzene

Concen: 266.189 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion: 105 Resp: 134943

Ion Ratio Lower Upper

105 100

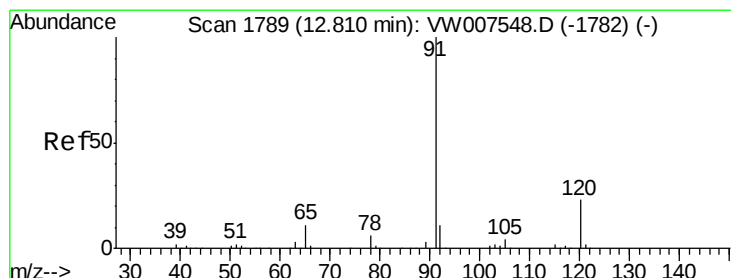
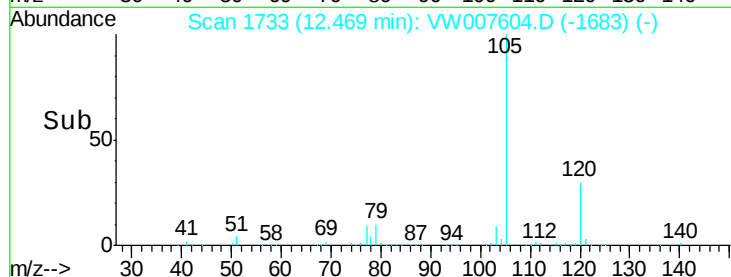
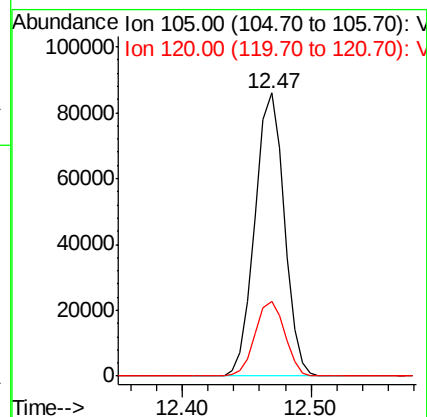
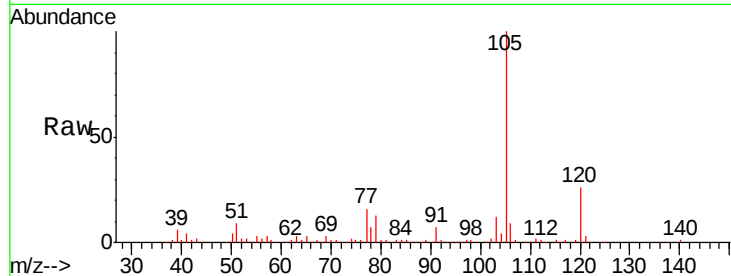
120 26.7 12.8 38.4

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:35 PM



#78

n-propylbenzene

Concen: 340.426 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007604.D

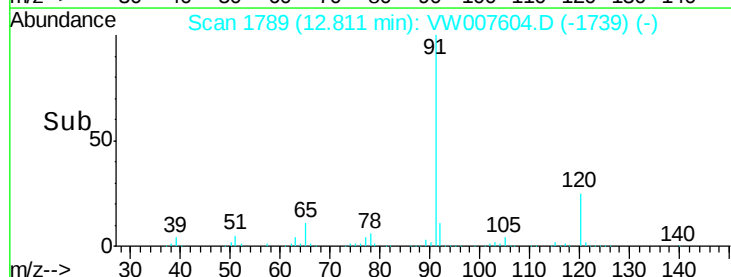
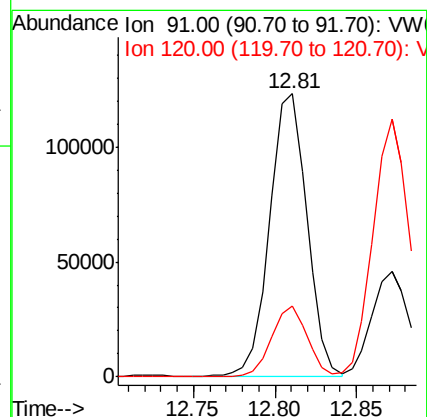
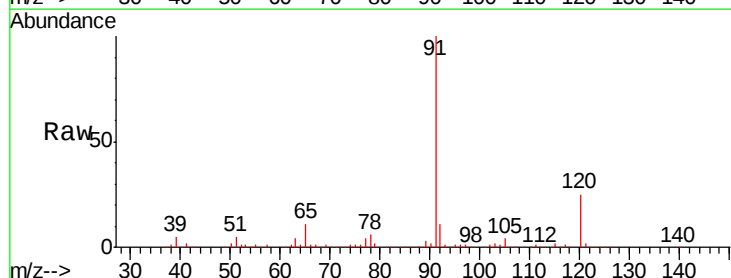
Acq: 16 Dec 2018 02:31

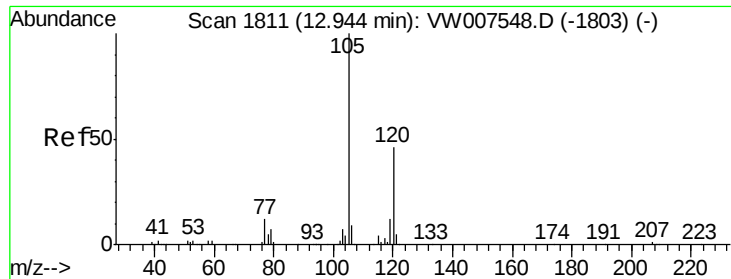
Tgt Ion: 91 Resp: 194219

Ion Ratio Lower Upper

91 100

120 23.9 11.9 35.5





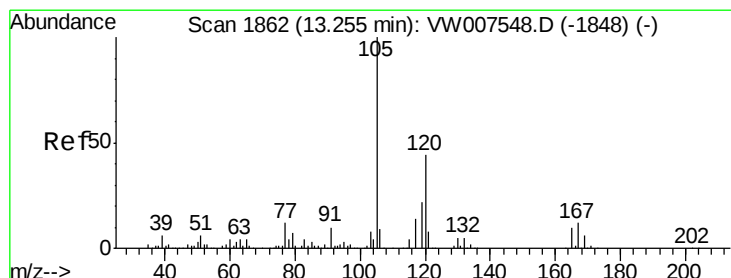
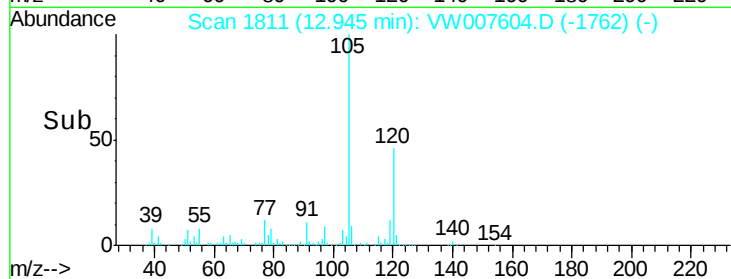
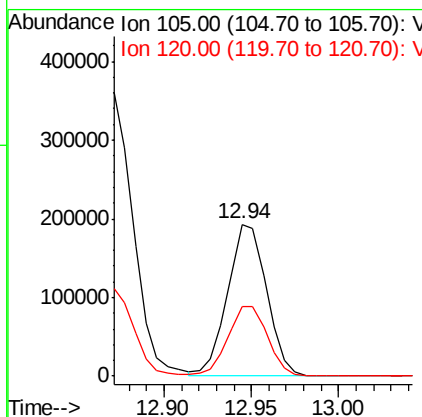
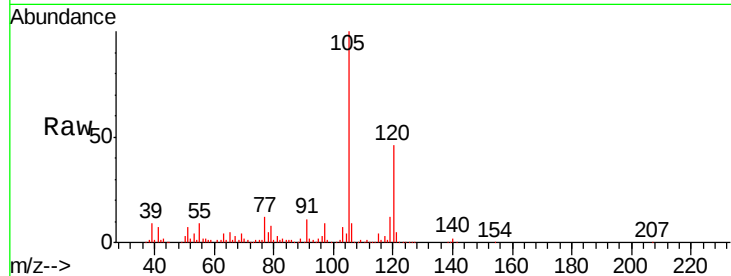
#80
 1,3,5-Trimethylbenzene
 Concen: 704.147 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW007604.D
 Acq: 16 Dec 2018 02:31

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0006-01

Tgt Ion:105 Resp: 299937
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.8 71.4

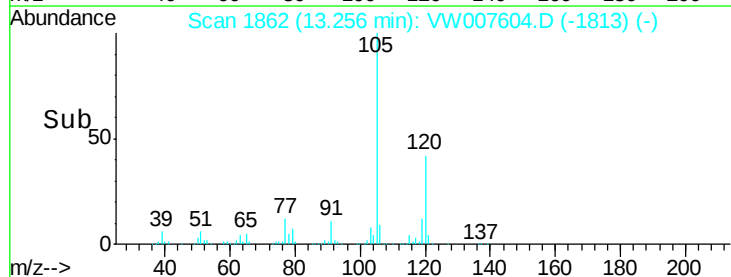
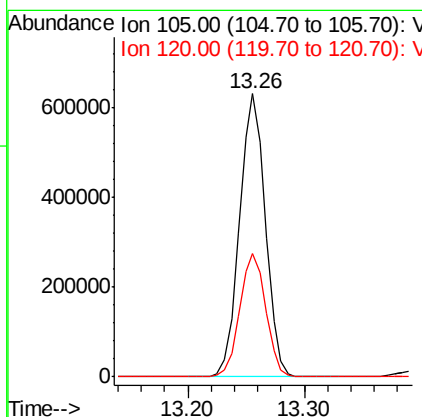
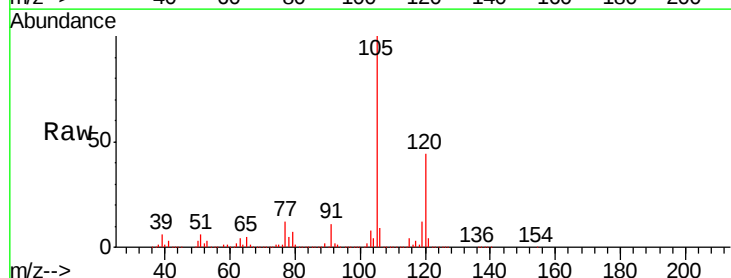
Manual Integrations
 APPROVED

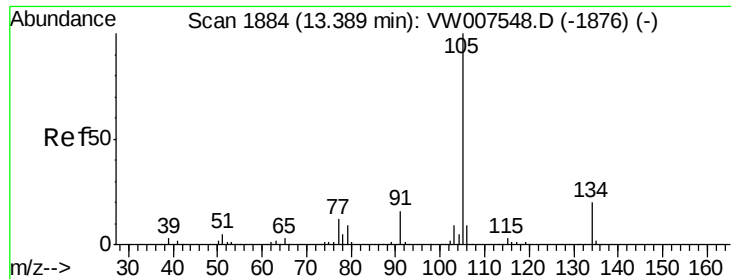
apatel
 12/17/2018 4:40:35 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 2222.257 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW007604.D
 Acq: 16 Dec 2018 02:31

Tgt Ion:105 Resp: 974087
 Ion Ratio Lower Upper
 105 100
 120 44.1 22.6 67.7





#85

sec-Butylbenzene

Concen: 34.565 ug/l m

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0006-01

Tgt Ion:105 Resp: 17710

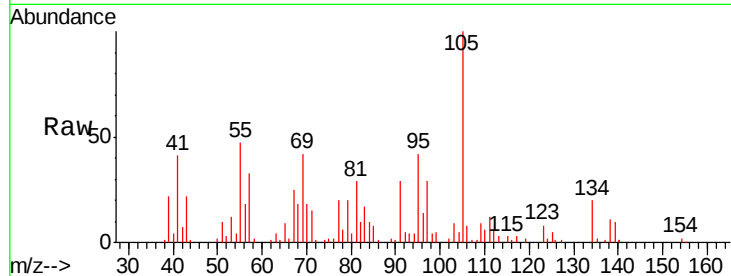
Ion Ratio Lower Upper

105 100

134 0.0 11.1 33.3#

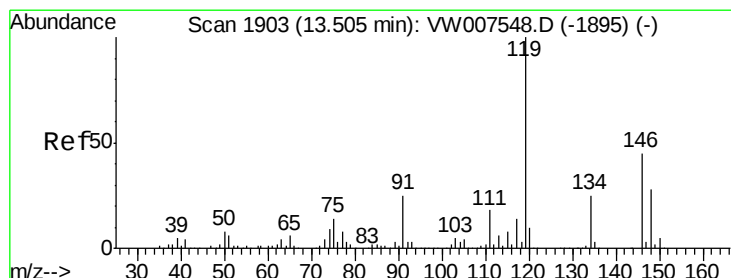
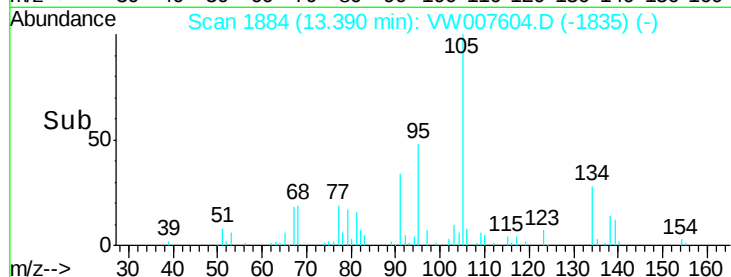
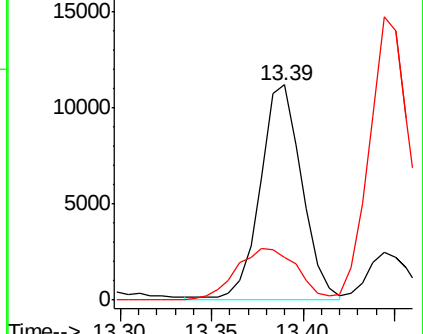
Manual Integrations
APPROVED

apatel
12/17/2018 4:40:35 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 306.000 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW007604.D

Acq: 16 Dec 2018 02:31

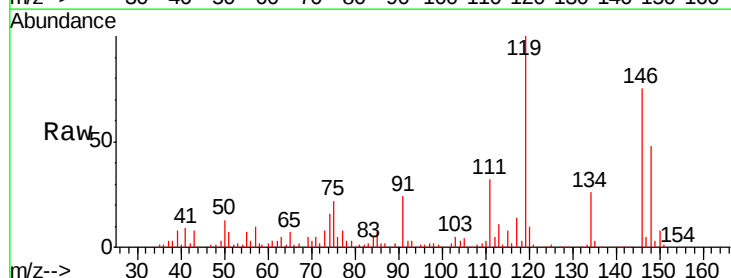
Tgt Ion:119 Resp: 140851

Ion Ratio Lower Upper

119 100

134 26.1 12.9 38.7

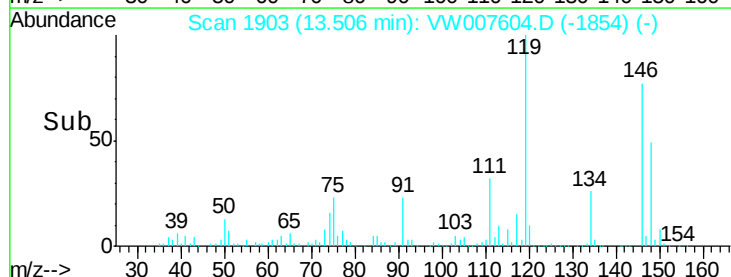
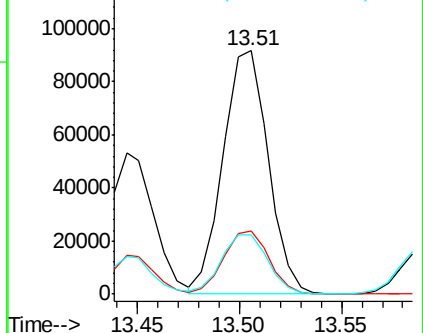
91 24.7 11.9 35.9

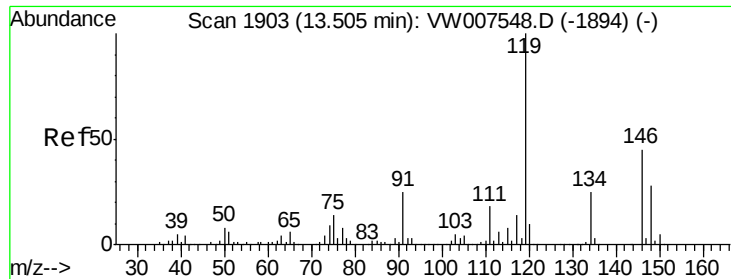


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





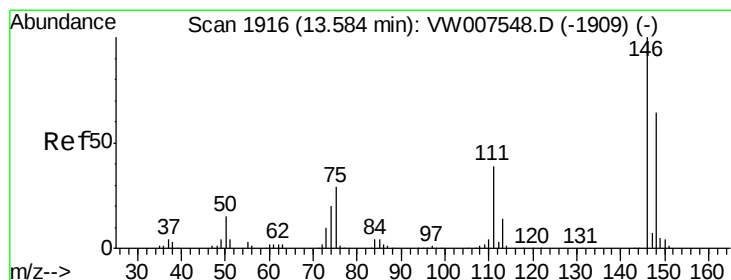
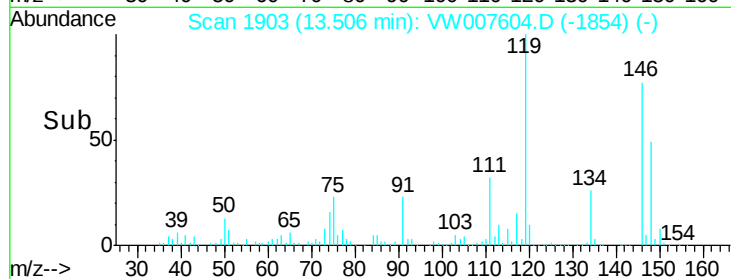
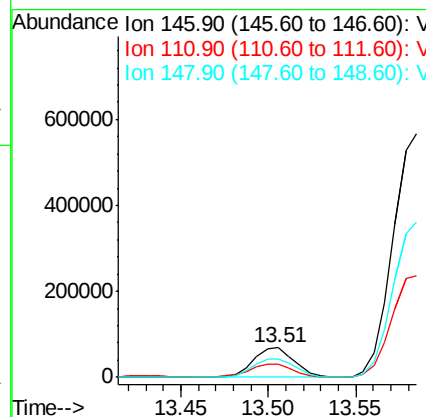
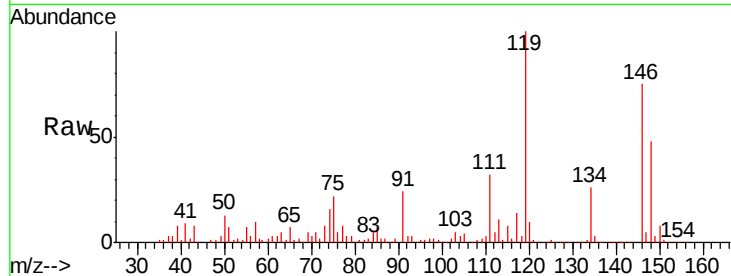
#87
 1,3-Dichlorobenzene
 Concen: 498.045 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW007604.D
 Acq: 16 Dec 2018 02:31

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0006-01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	111583		
111	44.1	20.1	60.3	
148	64.7	31.4	94.0	

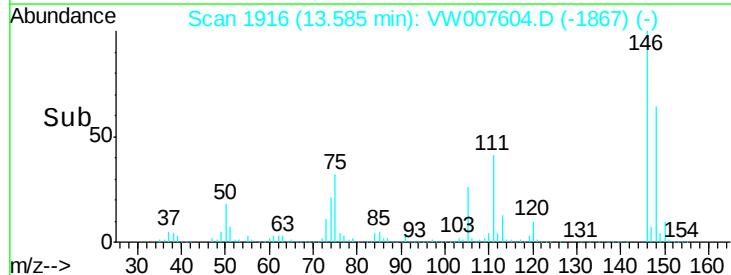
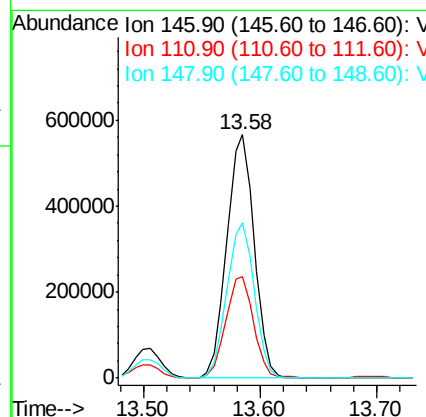
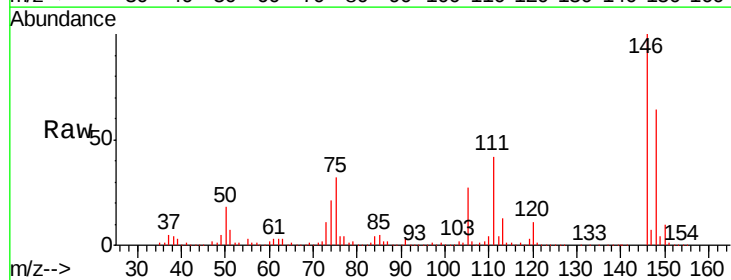
Manual Integrations
 APPROVED

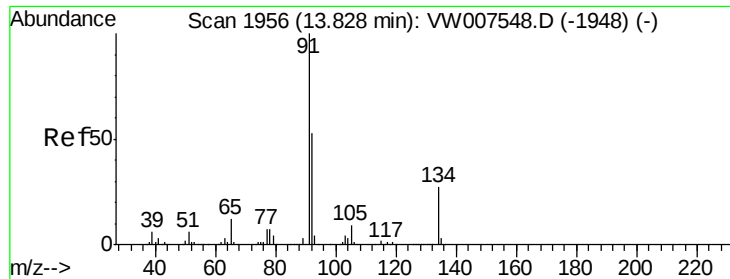
apatel
 12/17/2018 4:40:35 PM



#88
 1,4-Dichlorobenzene
 Concen: 4098.496 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW007604.D
 Acq: 16 Dec 2018 02:31

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	923130		
111	42.2	20.3	61.0	
148	64.0	33.5	100.5	





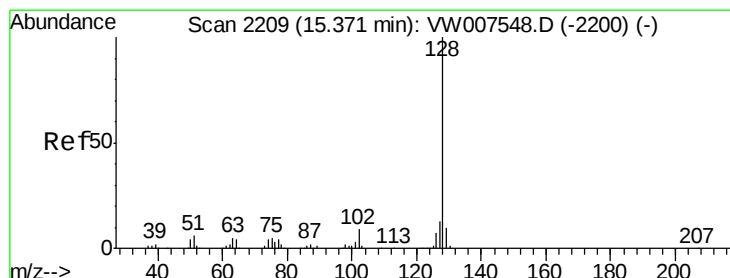
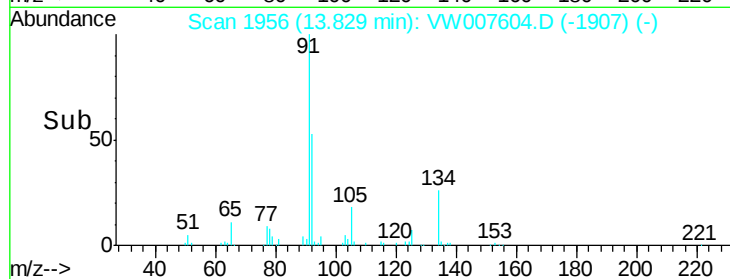
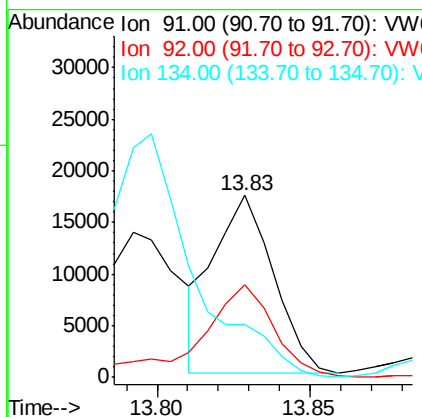
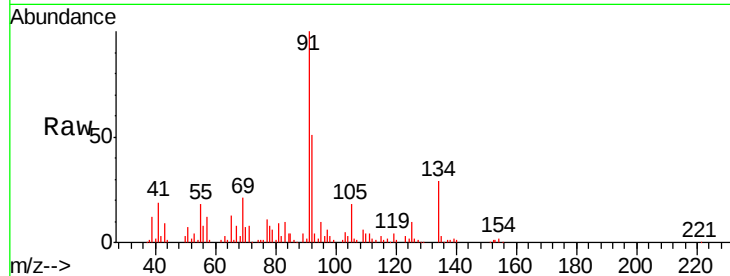
#89
n-Butylbenzene
Concen: 54.427 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0006-01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.5	25.7	77.1
134	0.0	13.4	40.2#

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:35 PM



#95
Naphthalene
Concen: 1349.714 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW007604.D
Acq: 16 Dec 2018 02:31

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.4
129	11.2	8.3	12.5

