

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
 Data File : VW007605.D
 Acq On : 16 Dec 2018 02:57
 Operator : SY/AP
 Sample : J6378-11
 Misc : 3.36G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0612-01

Manual Integrations
 APPROVED

apatel
 12/17/2018 4:40:38 PM

Quant Time: Dec 17 00:42:00 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	42739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	74617	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	32503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	8230	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	32556	68.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.32%	
35) Dibromofluoromethane	7.89	113	26583	58.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.70%	
50) Toluene-d8	10.35	98	64731	38.22	ug/l	0.02
Spiked Amount	50.000		Recovery	=	76.44%	
62) 4-Bromofluorobenzene	12.62	95	11126	17.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.36	62	3256	11.092	ug/l	98
16) Acetone	4.12	43	12324	148.803	ug/l	96
25) 2-Butanone	7.18	43	8283	76.607	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	38353	74.684	ug/l	92
31) Cyclohexane	7.96	56	296571	402.626	ug/l	95
39) Methylcyclohexane	9.34	83	353607	429.013	ug/l	92
40) Benzene	8.32	78	488581	258.643	ug/l	100
52) Toluene	10.40	92	47643818m	38973.473	ug/l	
65) Chlorobenzene	11.66	112	2269495	3349.977	ug/l #	85
67) Ethyl Benzene	11.74	91	15694274	13474.348	ug/l	92
68) m/p-Xylenes	11.86	106	20587118	45465.761	ug/l #	1
69) o-Xylene	12.18	106	7176969	16971.251	ug/l	100
73) Isopropylbenzene	12.47	105	184254	292.181	ug/l	96
78) n-propylbenzene	12.81	91	264407	372.563	ug/l	93
80) 1,3,5-Trimethylbenzene	12.95	105	411296	776.218	ug/l	92
84) 1,2,4-Trimethylbenzene	13.26	105	1375379	2522.404	ug/l	99
85) sec-Butylbenzene	13.39	105	21115m	33.129	ug/l	
86) p-Isopropyltoluene	13.51	119	266538	465.497	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	87448	313.773	ug/l	95
88) 1,4-Dichlorobenzene	13.58	146	1006180	3591.145	ug/l	98
89) n-Butylbenzene	13.83	91	28837	54.326	ug/l #	71
91) 1,2-Dichlorobenzene	13.87	146	59469	238.239	ug/l	96
95) Naphthalene	15.38	128	351439	1069.406	ug/l	98

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

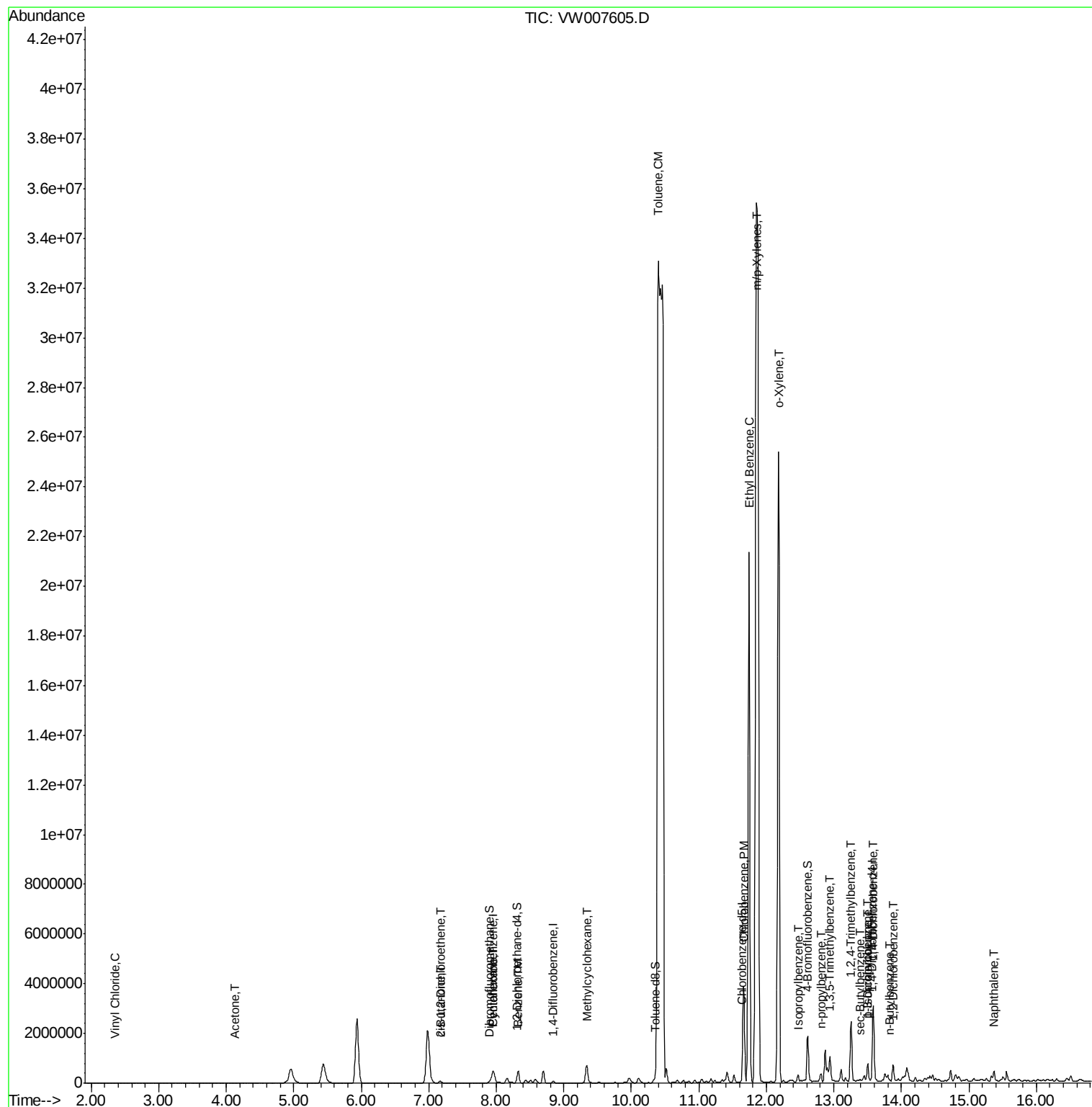
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
Data File : VW007605.D
Acq On : 16 Dec 2018 02:57
Operator : SY/AP
Sample : J6378-11
Misc : 3.36G/5ML/MSVOA_W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:38 PM

Quant Time: Dec 17 00:42:00 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0612-01

Tgt Ion: 168 Resp: 42739

Ion Ratio Lower Upper

168 100

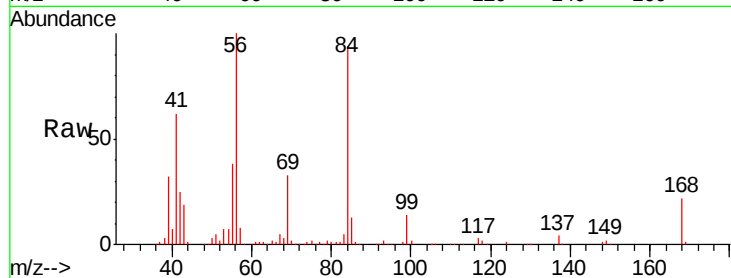
99 62.7 48.3 72.5

Manual Integrations

APPROVED

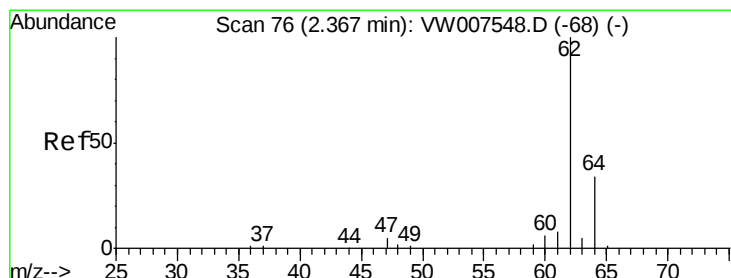
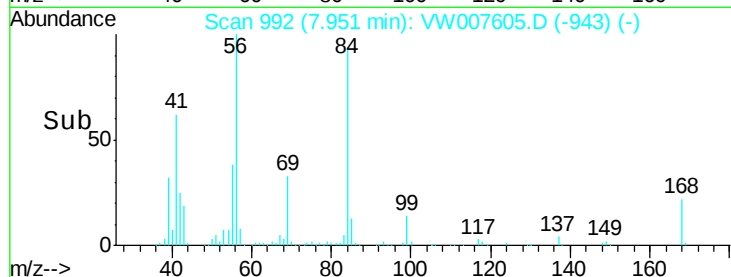
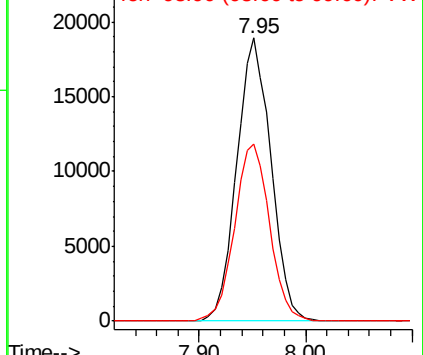
apatel

12/17/2018 4:40:38 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#4

Vinyl Chloride

Concen: 11.092 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW007605.D

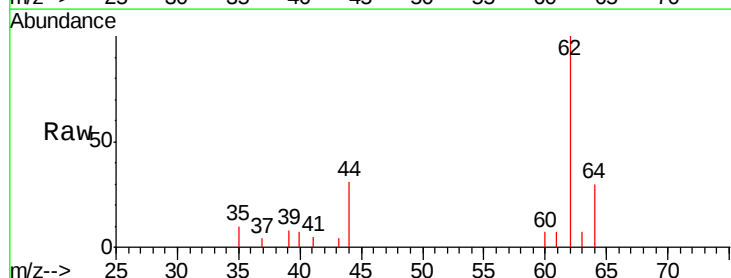
Acq: 16 Dec 2018 02:57

Tgt Ion: 62 Resp: 3256

Ion Ratio Lower Upper

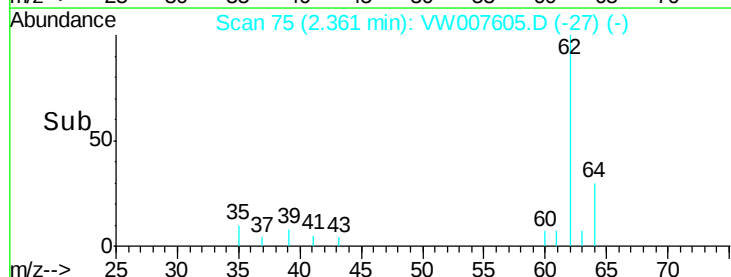
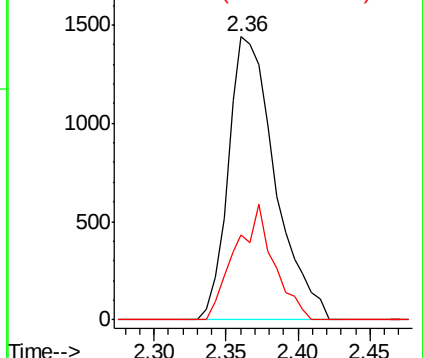
62 100

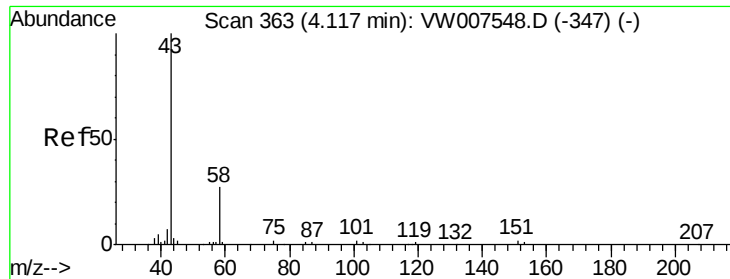
64 29.8 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





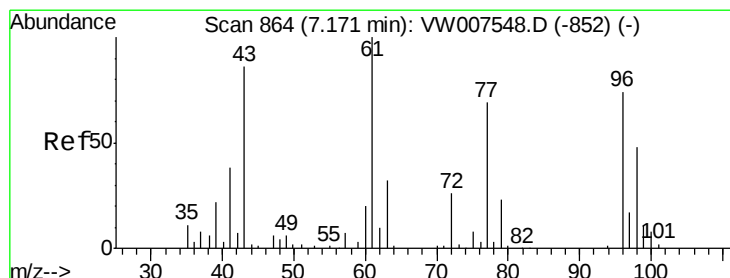
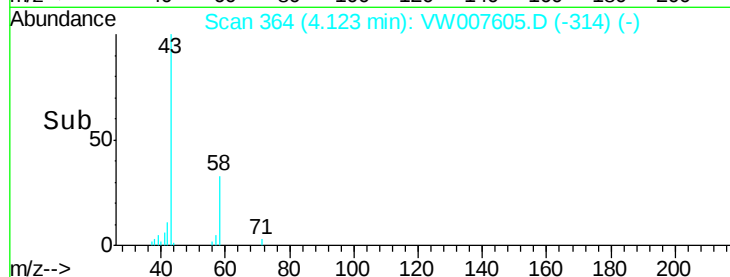
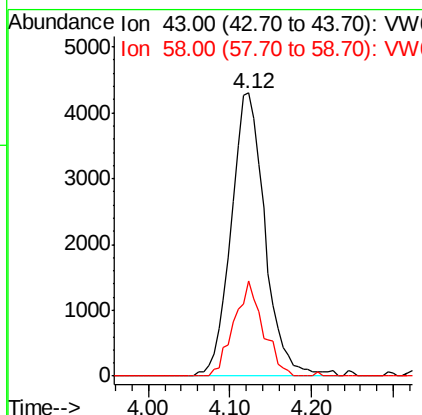
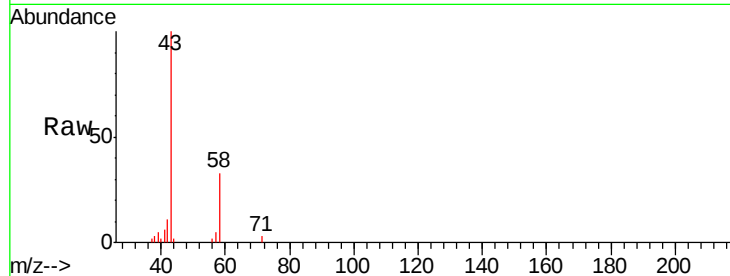
#16
Acetone
Concen: 148.803 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.4	24.9	37.3

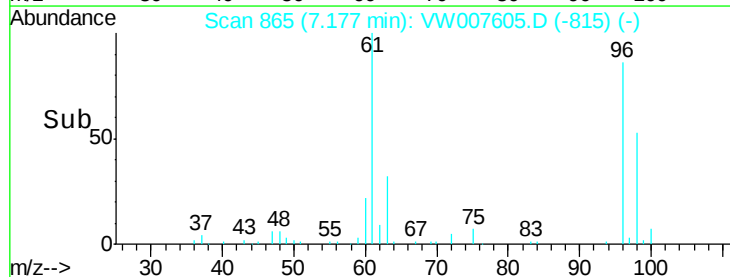
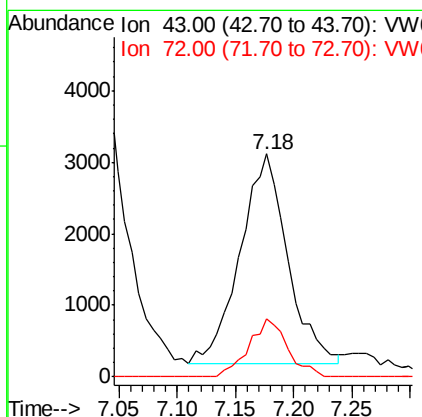
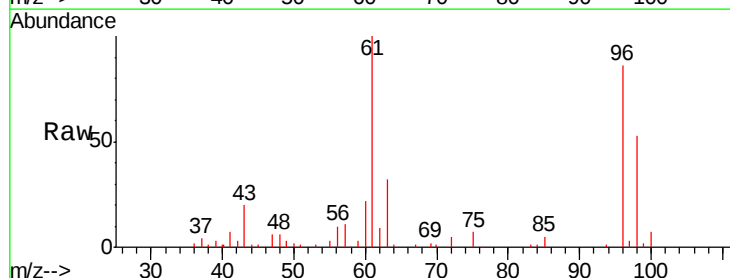
Manual Integrations
APPROVED

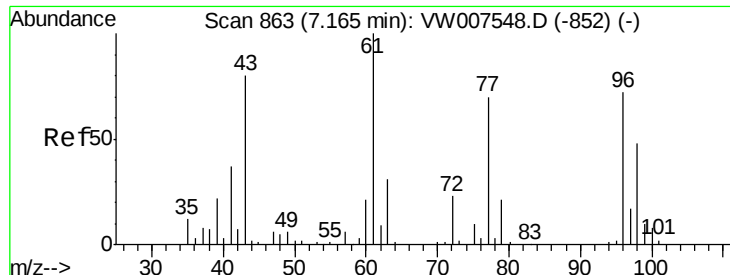
apatel
12/17/2018 4:40:38 PM



#25
2-Butanone
Concen: 76.607 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.9	23.4	35.2





#27

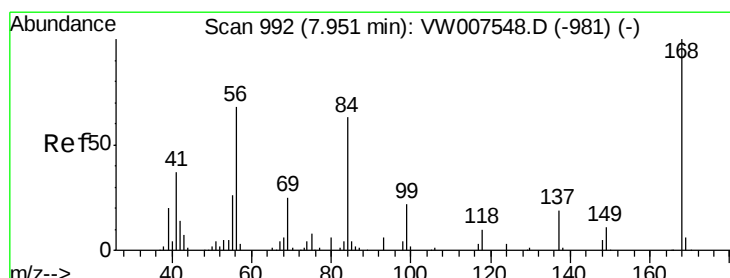
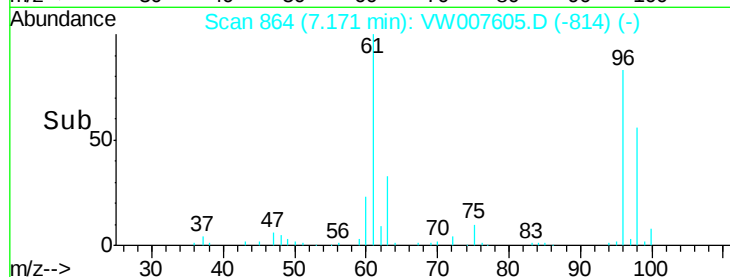
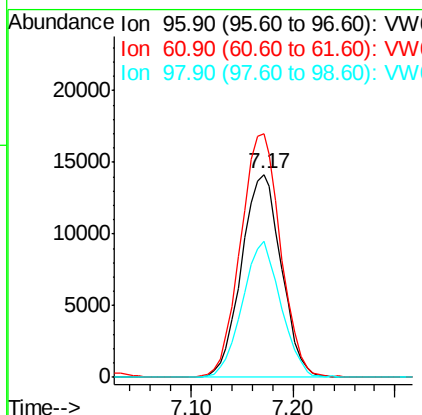
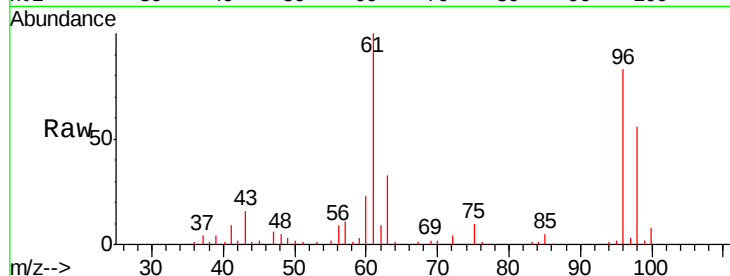
cis-1,2-Dichloroethene
Concen: 74.684 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	38353		
61	120.7	0.0	268.4	
98	65.0	0.0	127.8	

Manual Integrations
APPROVED

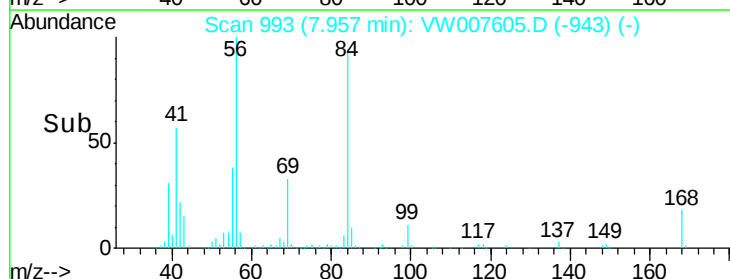
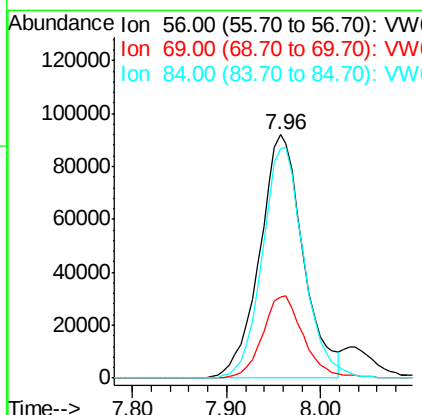
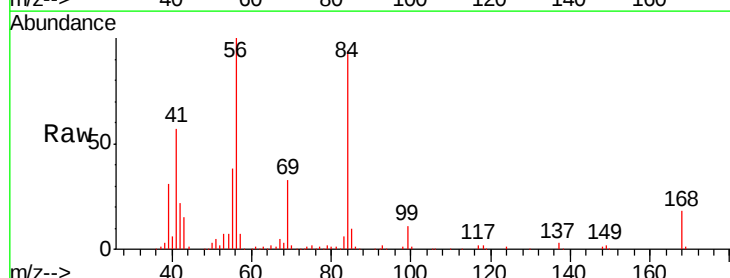
apatel
12/17/2018 4:40:38 PM

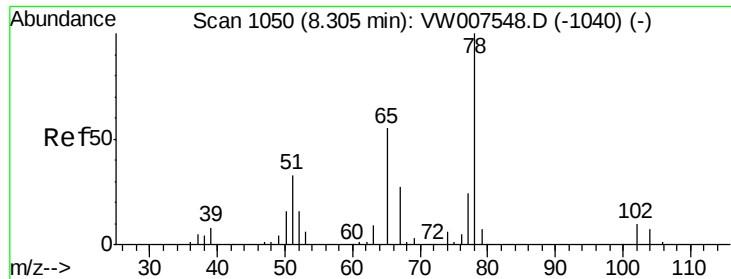


#31

Cyclohexane
Concen: 402.626 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion	Ratio	Resp	Lower	Upper
56	100	296571		
69	33.0	28.9	43.3	
84	94.4	71.8	107.6	





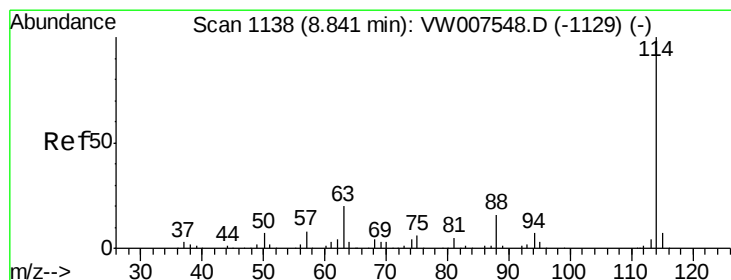
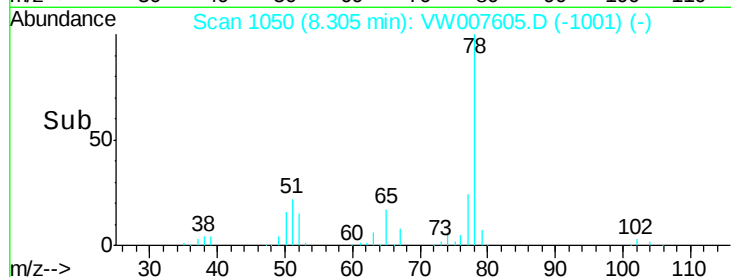
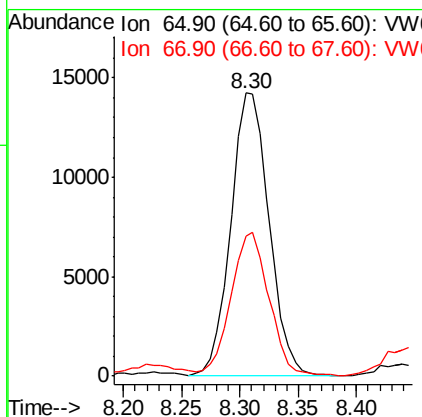
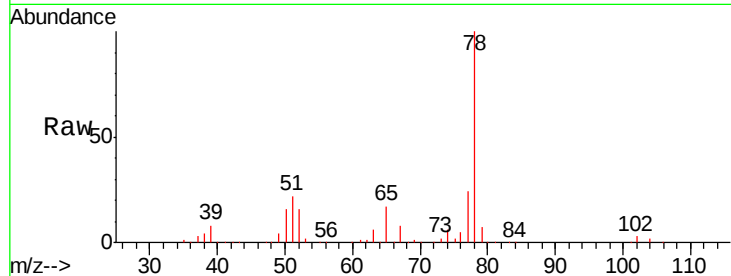
#33
 1,2-Dichloroethane-d4
 Concen: 68.661 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0612-01

Tgt Ion: 65 Resp: 32556
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.6

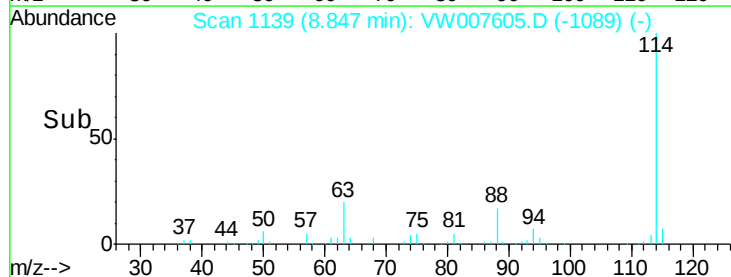
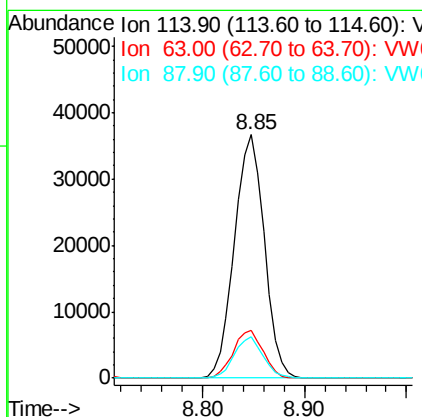
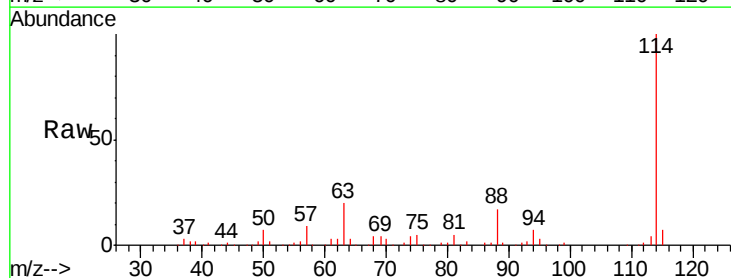
Manual Integrations
 APPROVED

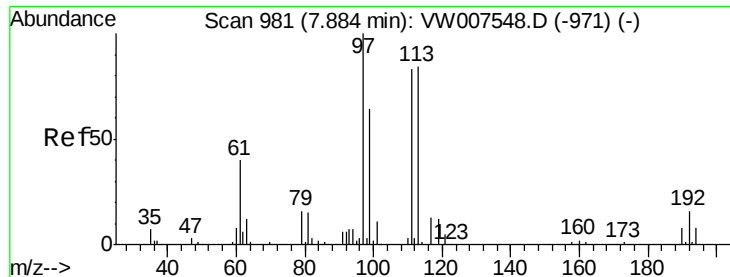
apatel
 12/17/2018 4:40:38 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Tgt Ion: 114 Resp: 74617
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.6
 88 16.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 58.853 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

Instrument :

MSVOA_W

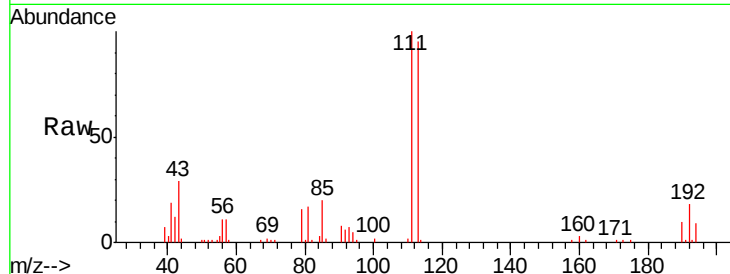
ClientSampleId :

P001-SD012-0612-01

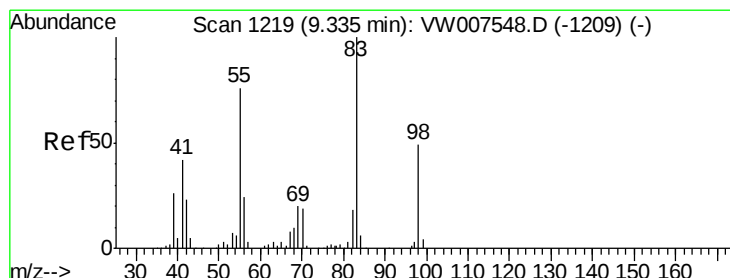
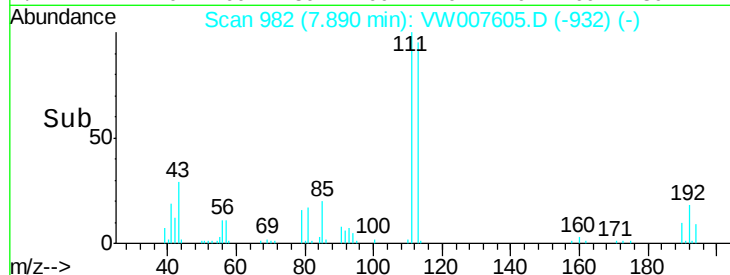
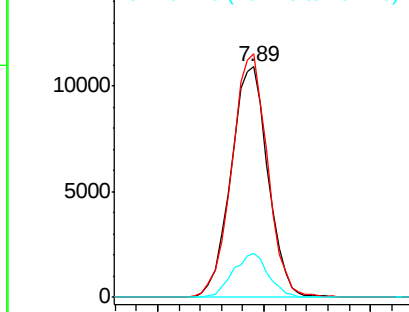
Tgt Ion:	113	Resp:	26583
Ion Ratio	Lower	Upper	
113	100		
111	102.0	81.1	121.7
192	18.2	14.6	21.8

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:38 PM



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 429.013 ug/l

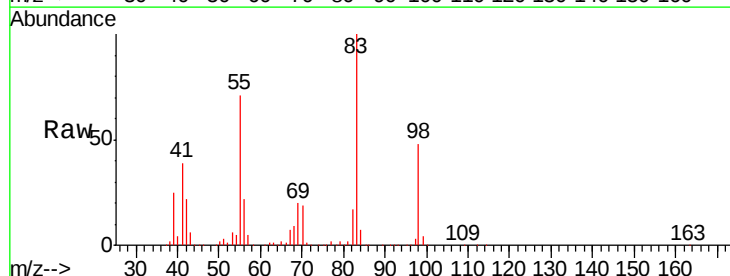
RT: 9.34 min Scan# 1220

Delta R.T. 0.01 min

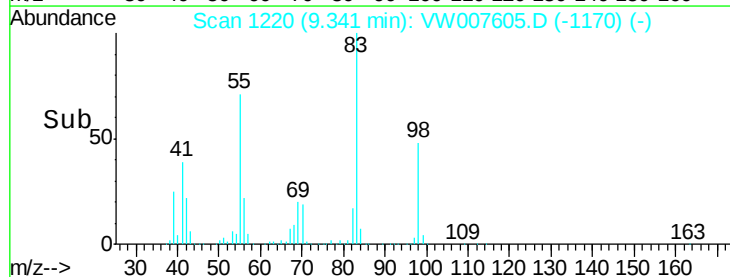
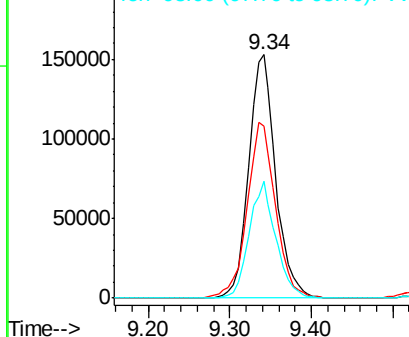
Lab File: VW007605.D

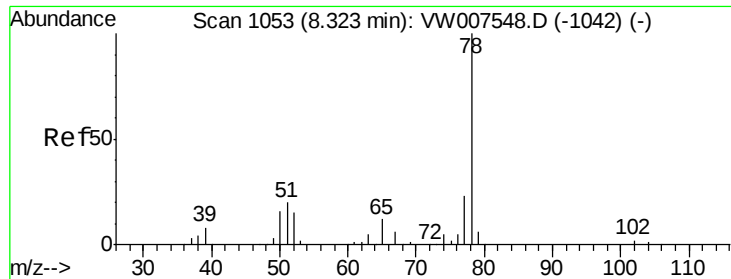
Acq: 16 Dec 2018 02:57

Tgt Ion:	83	Resp:	353607
Ion Ratio	Lower	Upper	
83	100		
55	70.6	62.8	94.2
98	47.9	42.2	63.2



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW





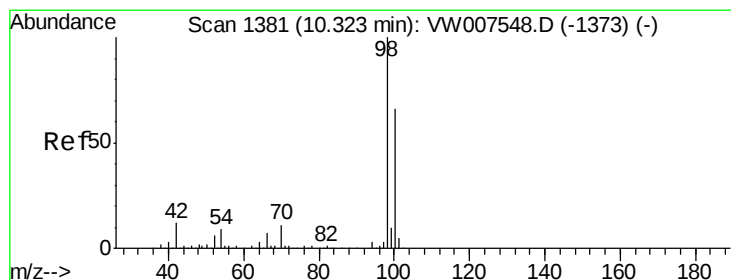
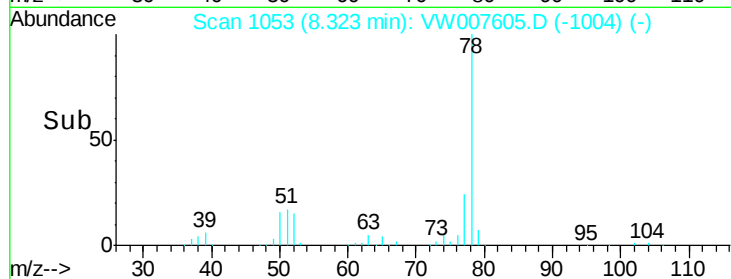
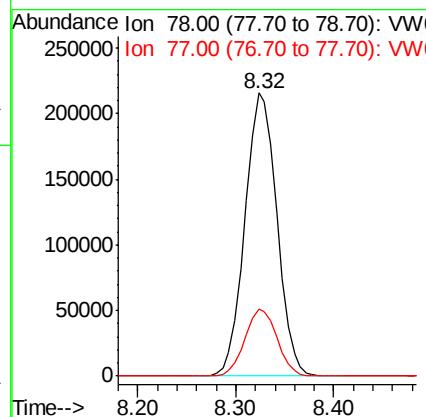
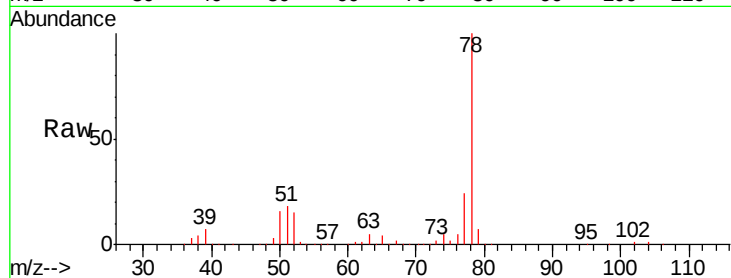
#40
Benzene
Concen: 258.643 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion: 78 Resp: 488581
Ion Ratio Lower Upper
78 100
77 23.7 18.8 28.2

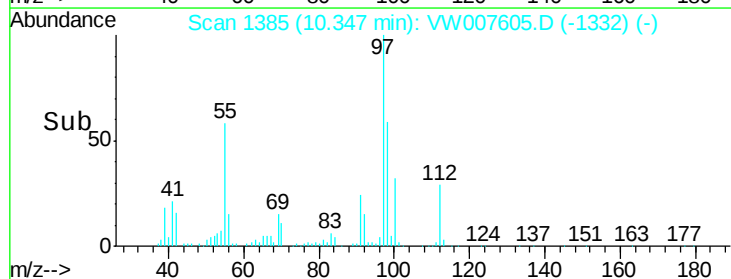
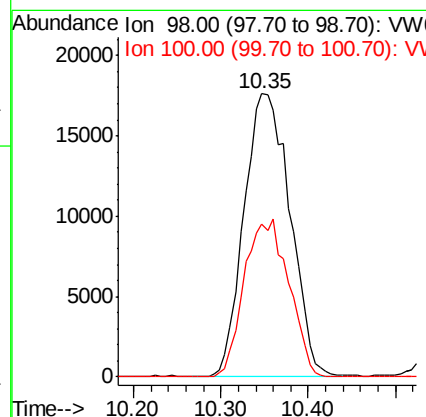
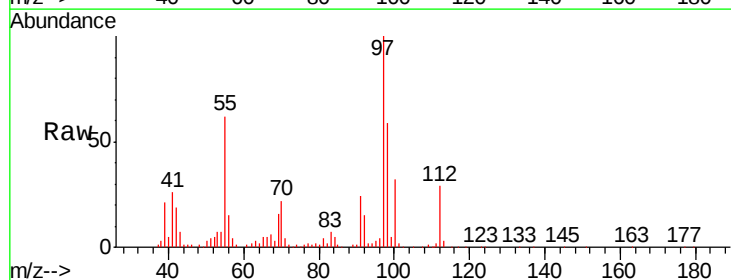
Manual Integrations
APPROVED

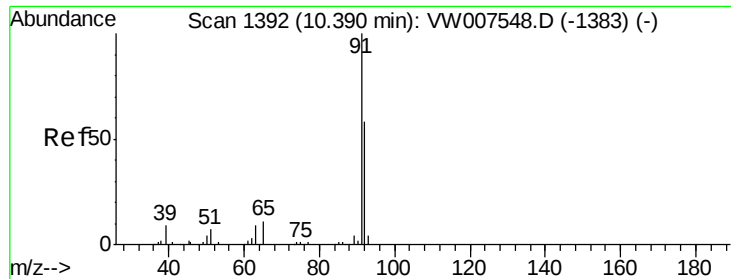
apatel
12/17/2018 4:40:38 PM



#50
Toluene-d8
Concen: 38.222 ug/l
RT: 10.35 min Scan# 1385
Delta R.T. 0.02 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion: 98 Resp: 64731
Ion Ratio Lower Upper
98 100
100 53.7 51.8 77.8





#52

Toluene

Concen: 38973.473 ug/l m

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0612-01

Tgt Ion: 92 Resp: 47643818

Ion Ratio Lower Upper

92 100

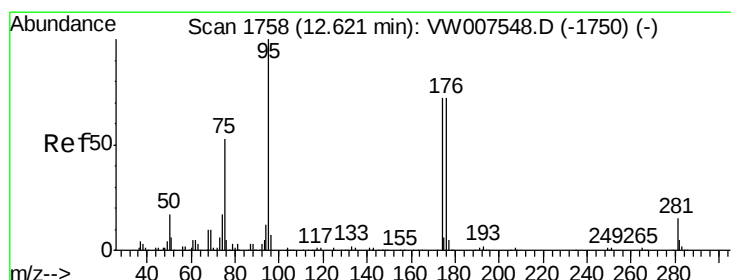
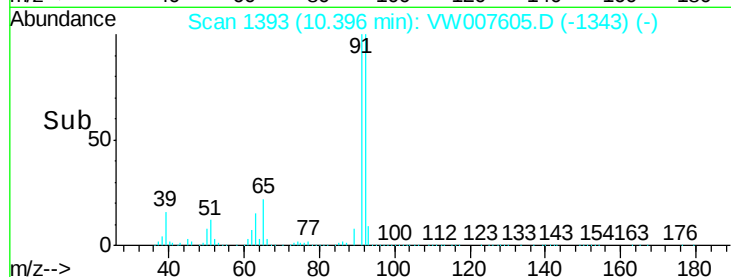
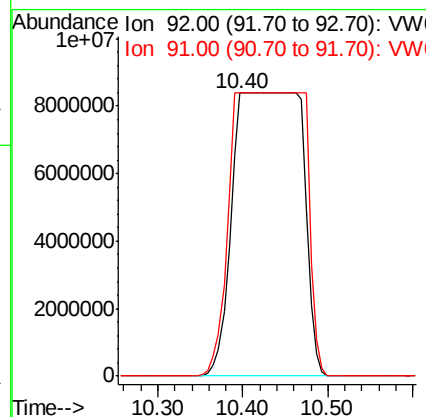
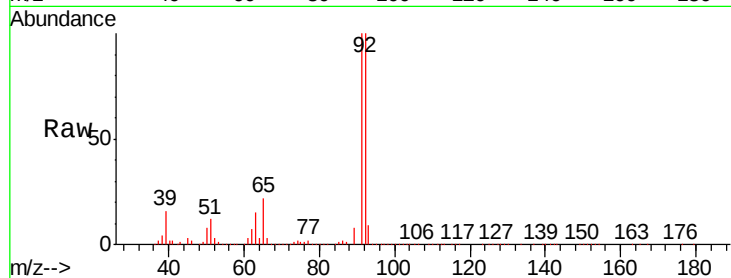
91 0.0 136.2 204.2#

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:38 PM



#62

4-Bromofluorobenzene

Concen: 17.868 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

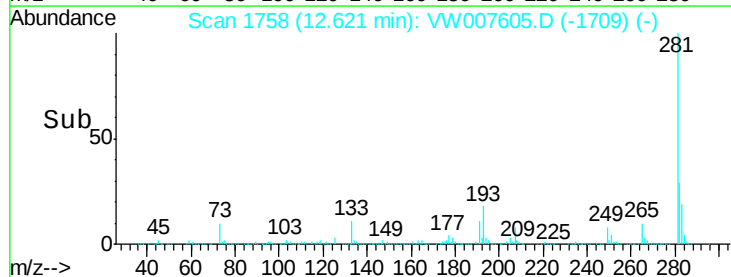
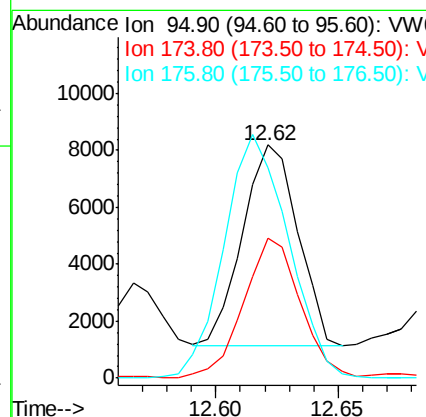
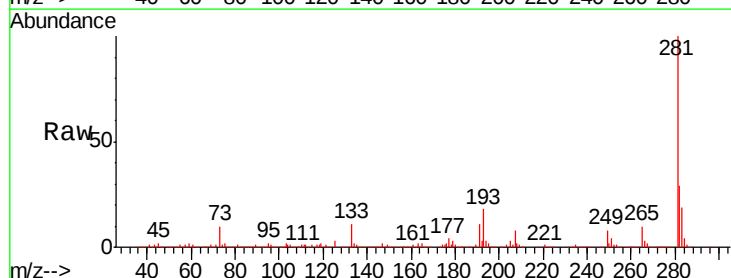
Tgt Ion: 95 Resp: 11126

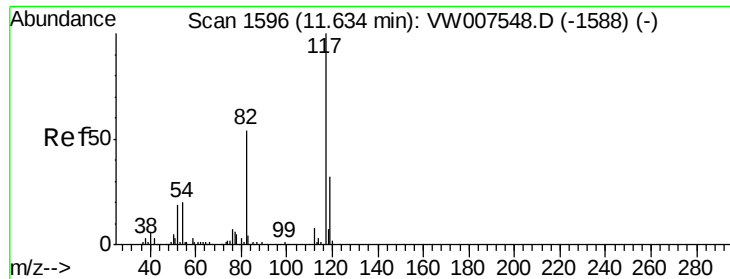
Ion Ratio Lower Upper

95 100

174 71.4 0.0 147.2

176 141.0 0.0 138.8#





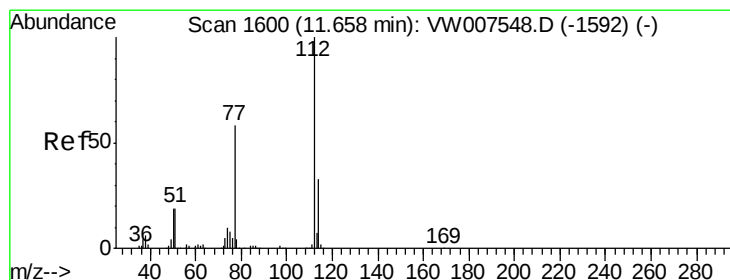
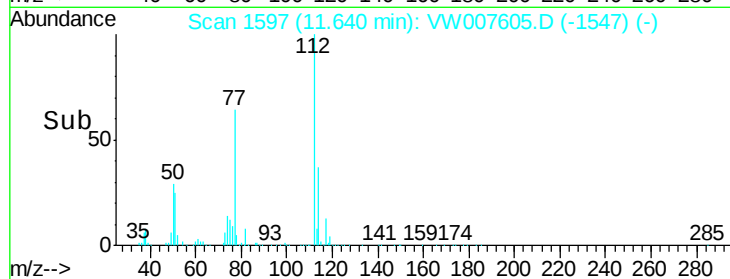
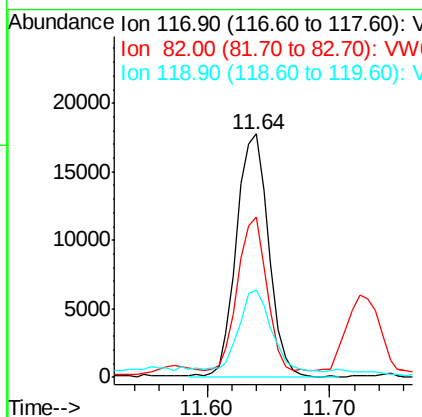
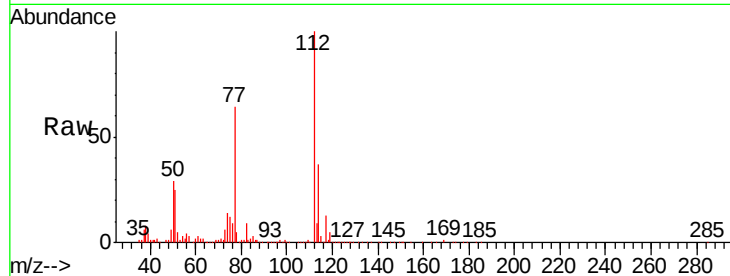
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	62.3	42.3	63.5
119	32.8	23.0	34.6

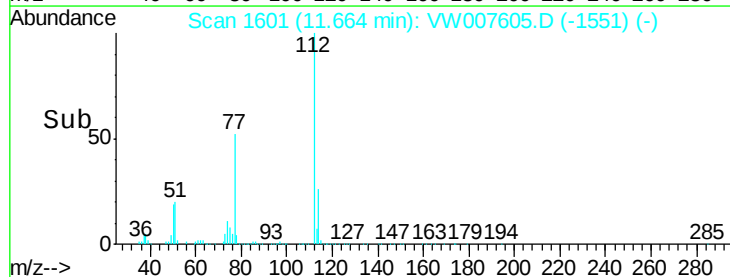
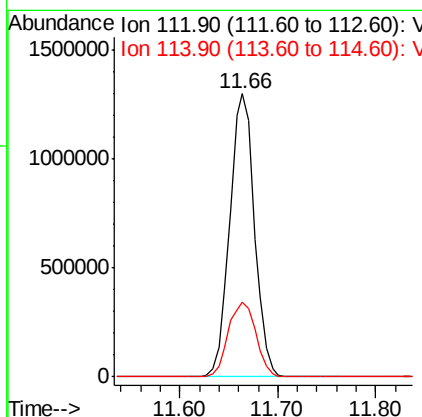
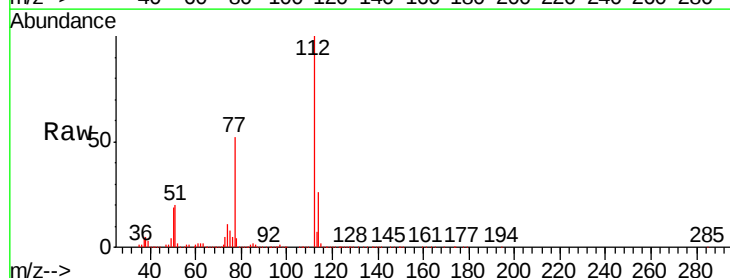
Manual Integrations
APPROVED

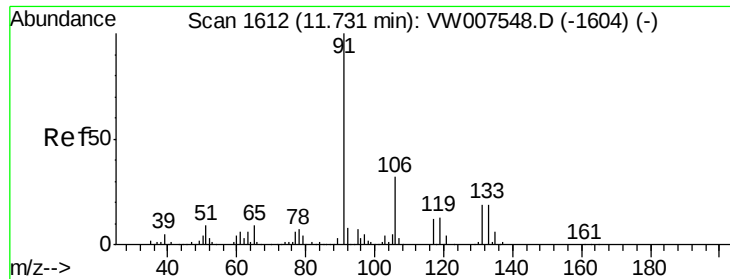
apatel
12/17/2018 4:40:38 PM



#65
Chlorobenzene
Concen: 3349.977 ug/l
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	26.4	27.8	41.8#





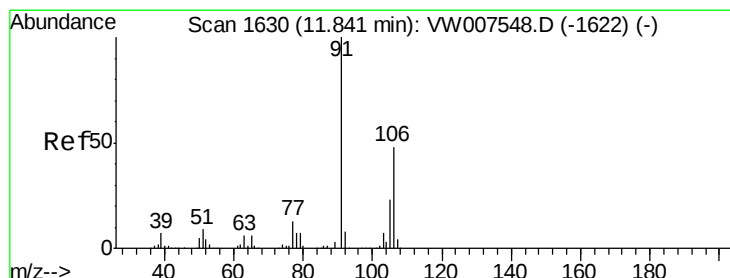
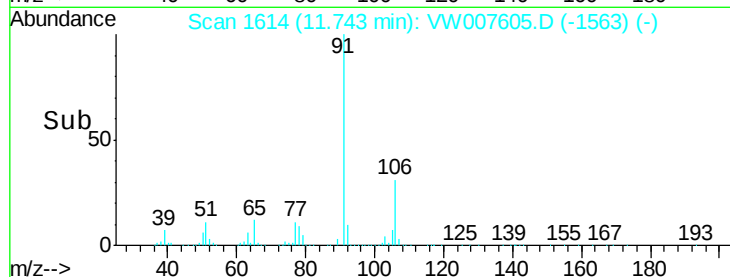
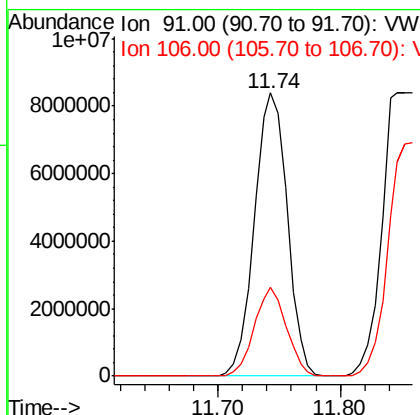
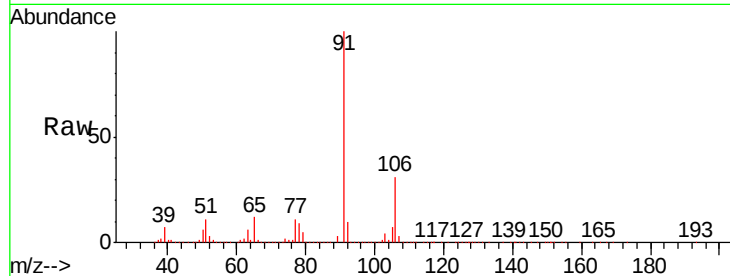
#67
Ethyl Benzene
Concen: 13474.348 ug/l
RT: 11.74 min Scan# 1614
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion: 91 Resp:15694274
Ion Ratio Lower Upper
91 100
106 31.4 21.8 32.8

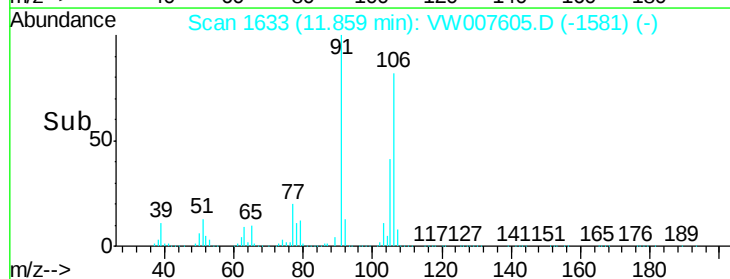
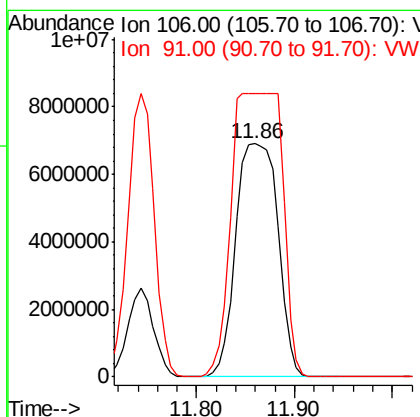
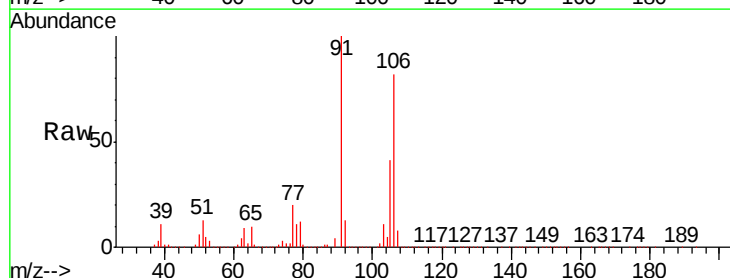
Manual Integrations
APPROVED

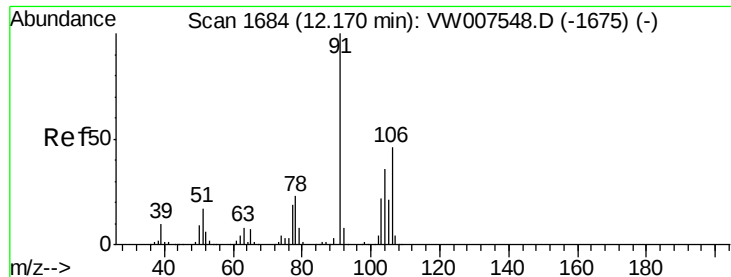
apatel
12/17/2018 4:40:38 PM



#68
m/p-Xylenes
Concen: 45465.761 ug/l
RT: 11.86 min Scan# 1633
Delta R.T. 0.02 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion:106 Resp:20587118
Ion Ratio Lower Upper
106 100
91 0.0 165.3 247.9#





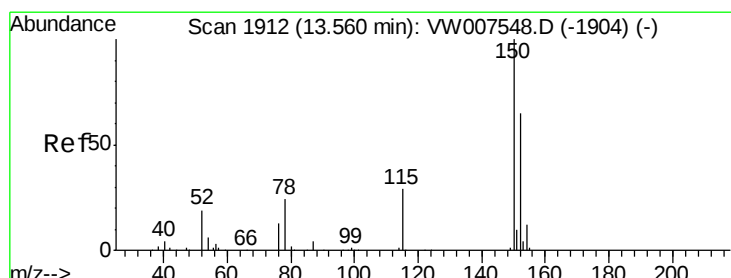
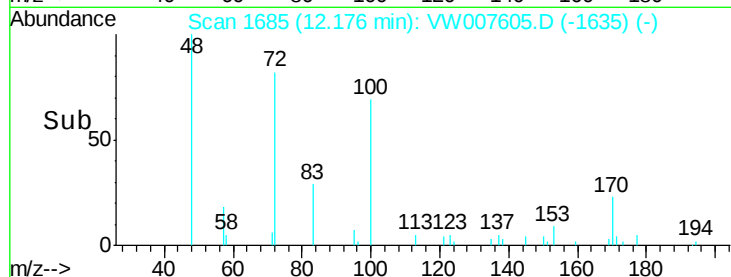
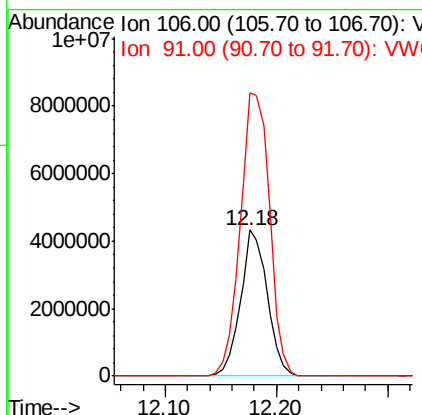
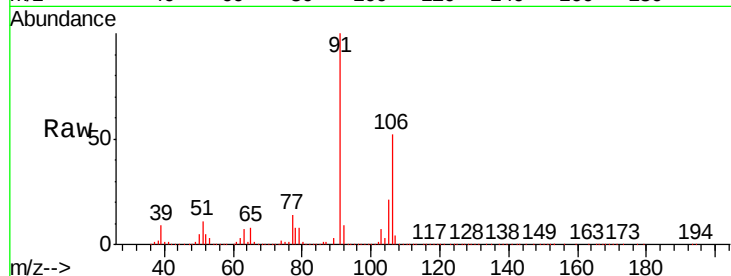
#69
o-Xylene
Concen: 16971.251 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion:106 Resp: 7176969
Ion Ratio Lower Upper
106 100
91 213.4 106.6 319.8

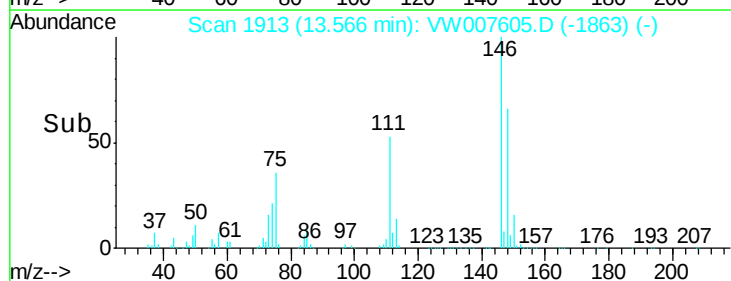
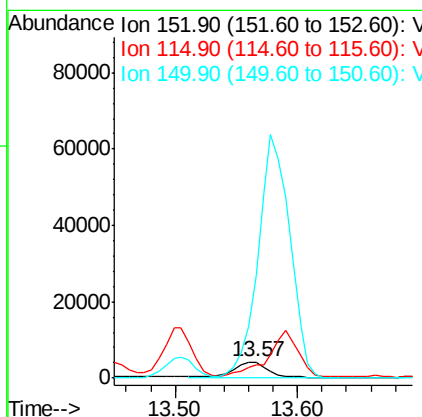
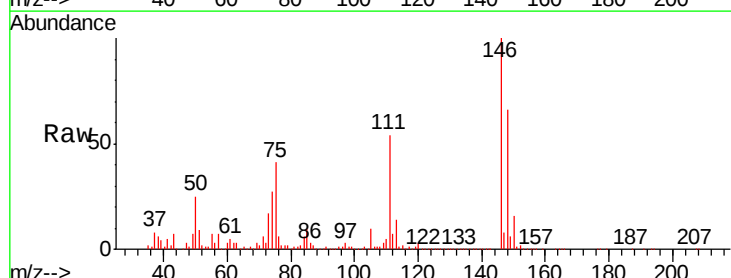
Manual Integrations
APPROVED

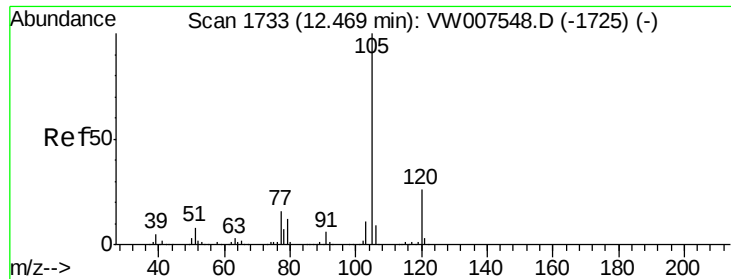
apatel
12/17/2018 4:40:38 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion:152 Resp: 8230
Ion Ratio Lower Upper
152 100
115 0.0 31.4 94.2#
150 1408.0 0.0 358.4#





#73

Isopropylbenzene

Concen: 292.181 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0612-01

Tgt Ion: 105 Resp: 184254

Ion Ratio Lower Upper

105 100

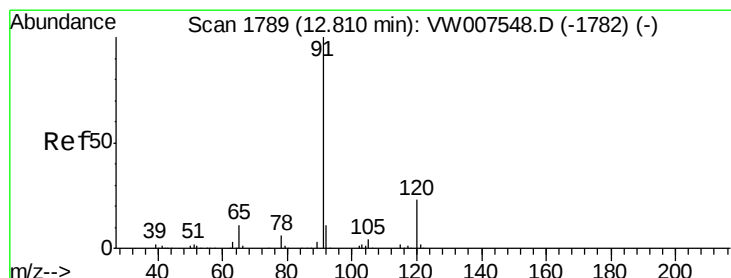
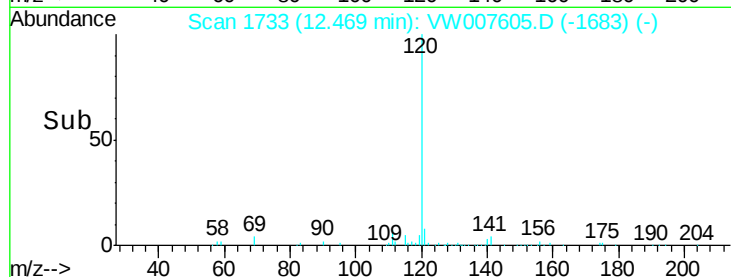
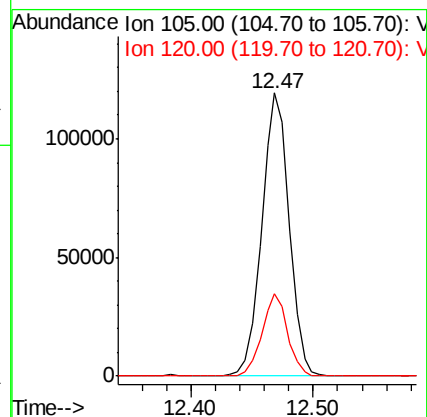
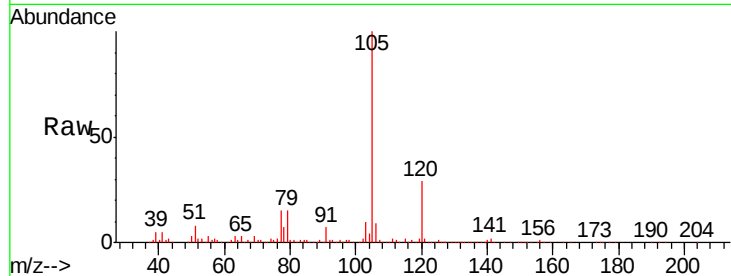
120 27.5 12.8 38.4

Manual Integrations

APPROVED

apatel

12/17/2018 4:40:38 PM



#78

n-propylbenzene

Concen: 372.563 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007605.D

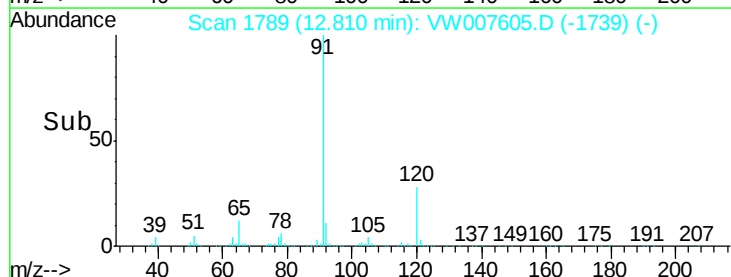
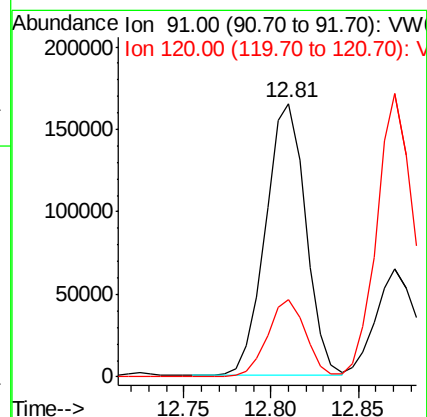
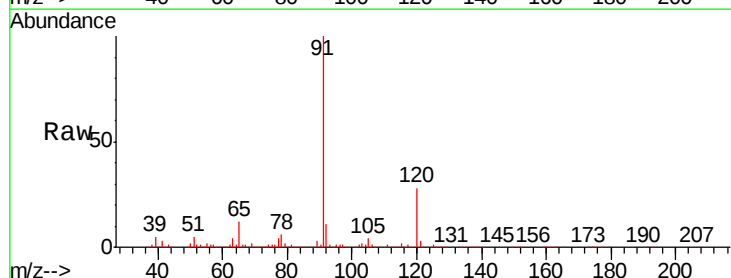
Acq: 16 Dec 2018 02:57

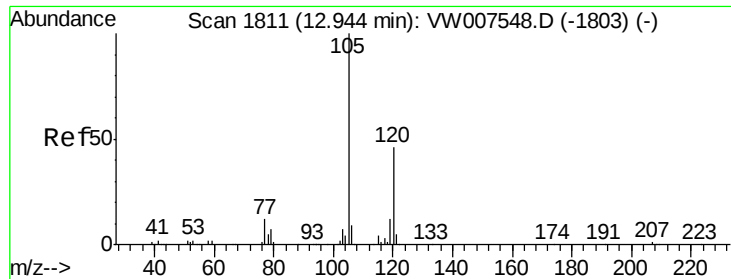
Tgt Ion: 91 Resp: 264407

Ion Ratio Lower Upper

91 100

120 27.1 11.9 35.5





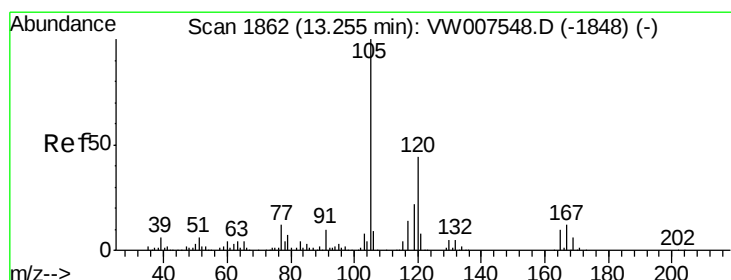
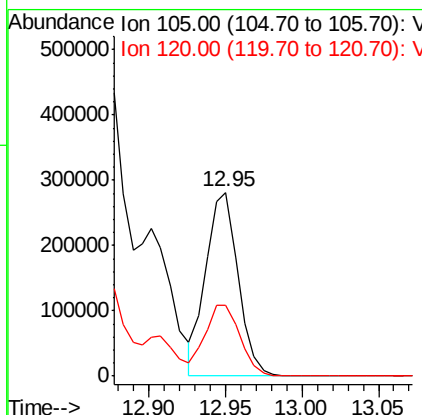
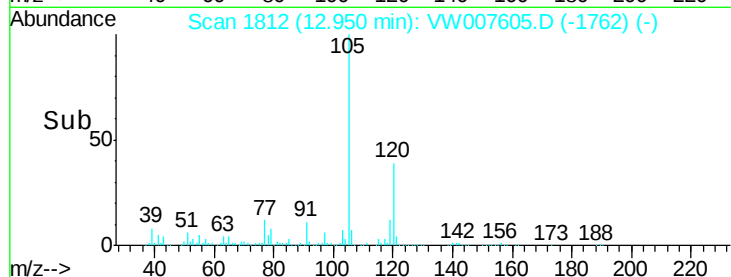
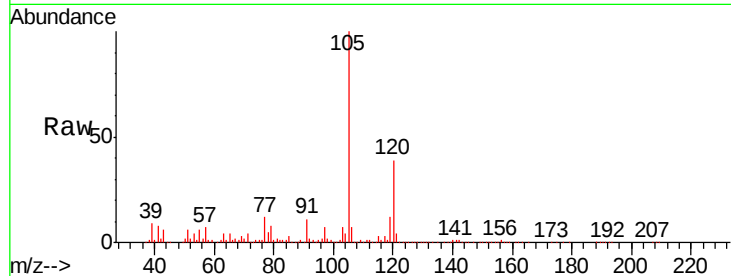
#80
 1,3,5-Trimethylbenzene
 Concen: 776.218 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0612-01

Tgt Ion:105 Resp: 411296
 Ion Ratio Lower Upper
 105 100
 120 42.2 23.8 71.4

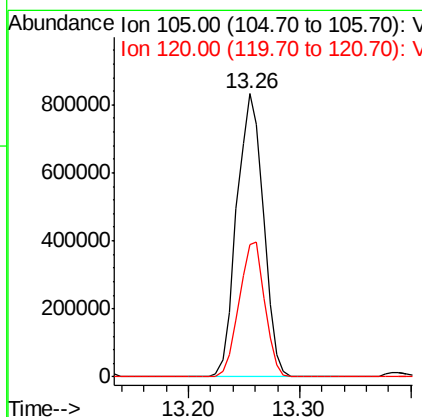
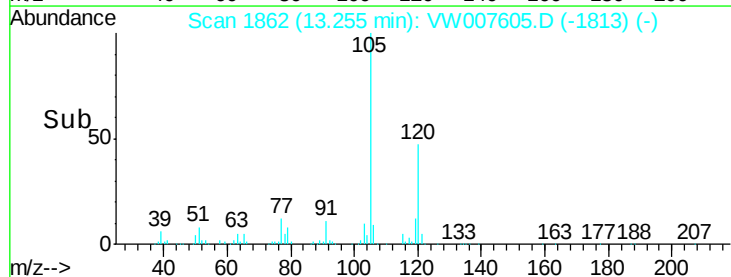
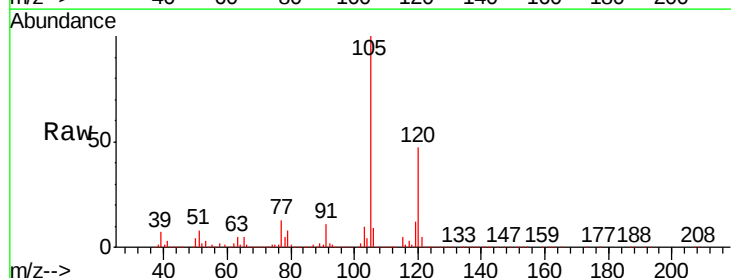
Manual Integrations
 APPROVED

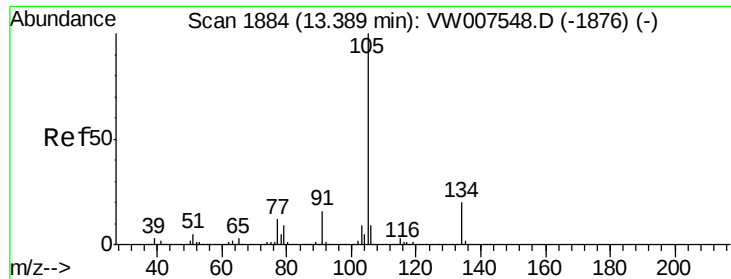
apatel
 12/17/2018 4:40:38 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 2522.404 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Tgt Ion:105 Resp: 1375379
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.6 67.7





#85

sec-Butylbenzene

Concen: 33.129 ug/l m

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

Instrument :

MSVOA_W

ClientSampleId :

P001-SD012-0612-01

Tgt Ion:105 Resp: 21115

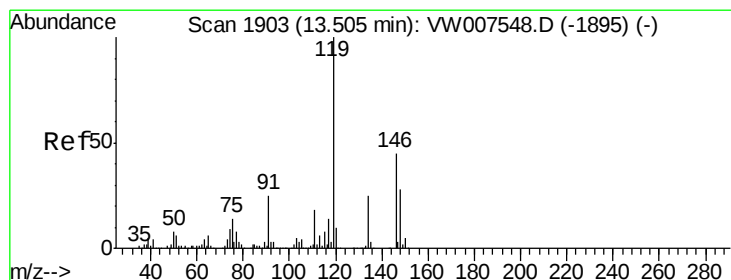
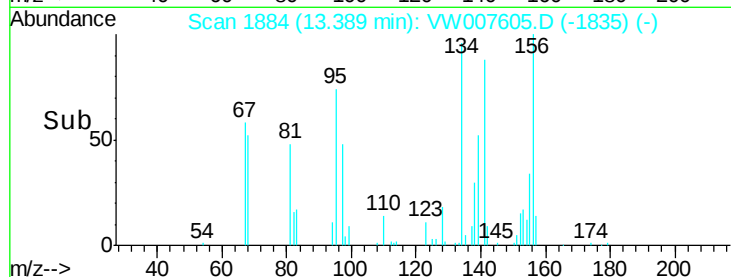
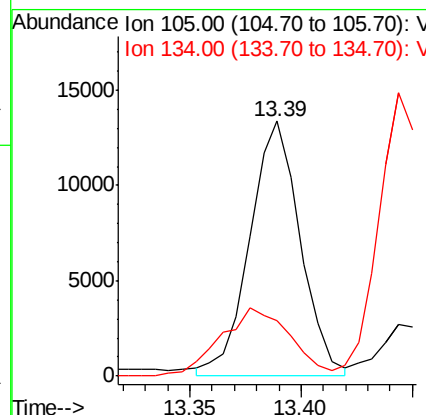
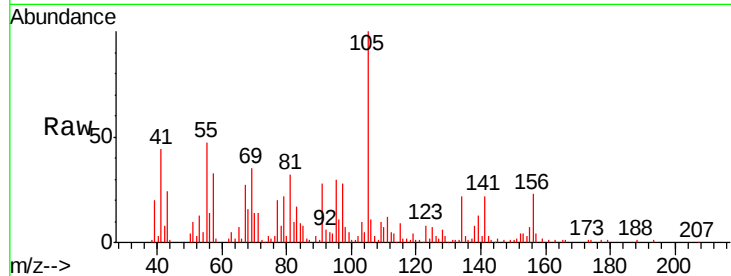
Ion Ratio Lower Upper

105 100

134 0.0 11.1 33.3#

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:38 PM



#86

p-Isopropyltoluene

Concen: 465.497 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW007605.D

Acq: 16 Dec 2018 02:57

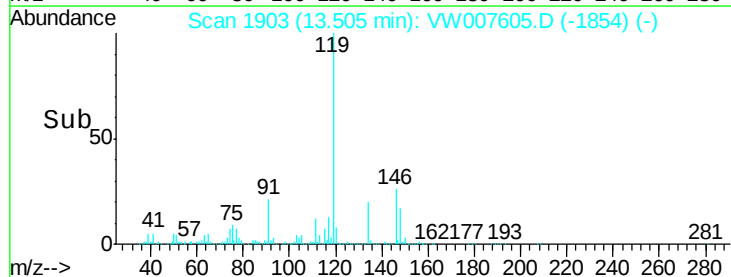
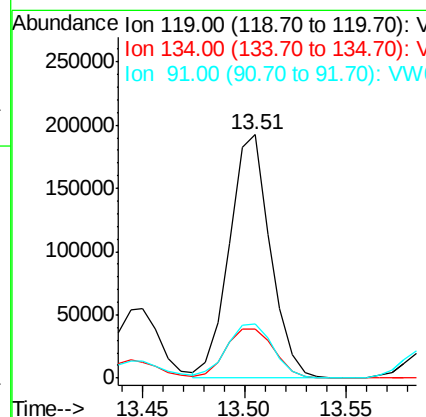
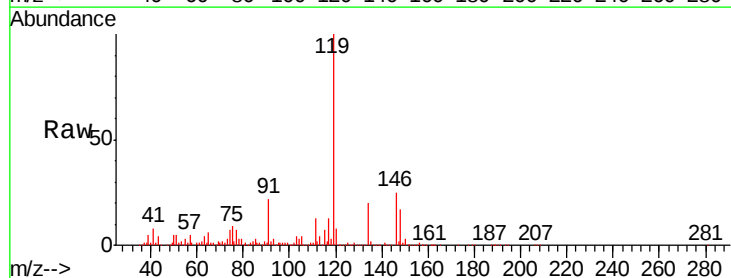
Tgt Ion:119 Resp: 266538

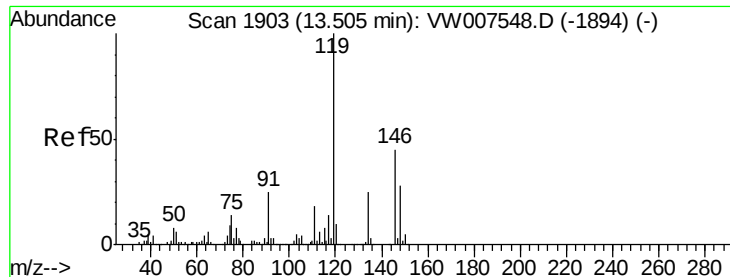
Ion Ratio Lower Upper

119 100

134 24.3 12.9 38.7

91 24.6 11.9 35.9





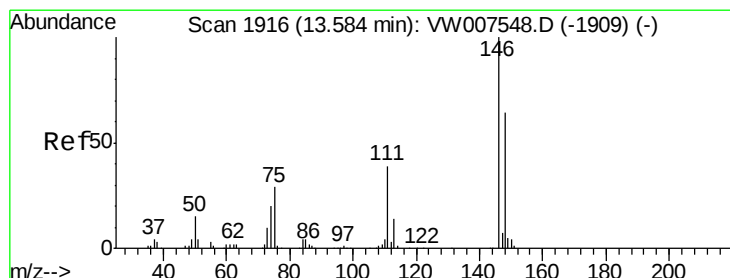
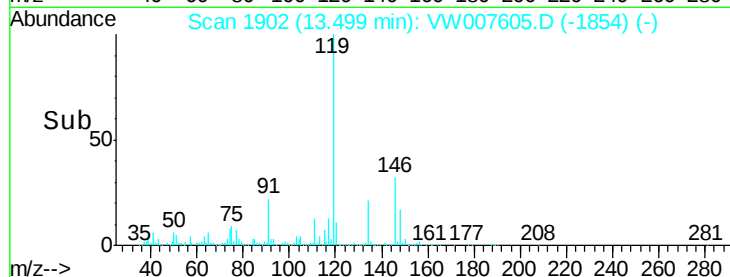
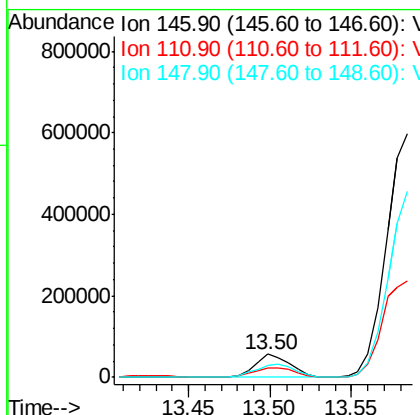
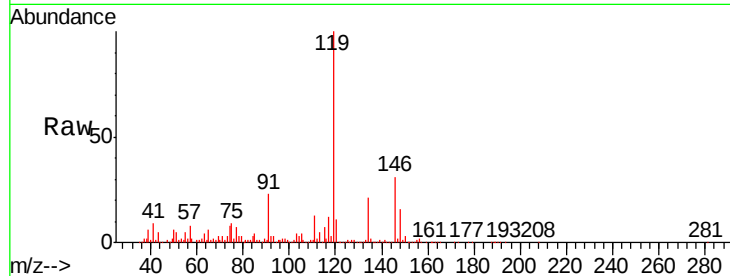
#87
 1,3-Dichlorobenzene
 Concen: 313.773 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD012-0612-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.1	20.1	60.3
148	61.5	31.4	94.0

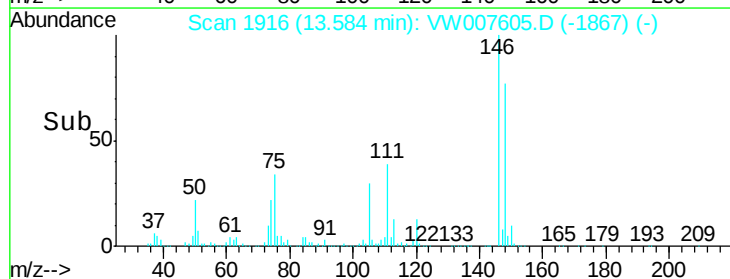
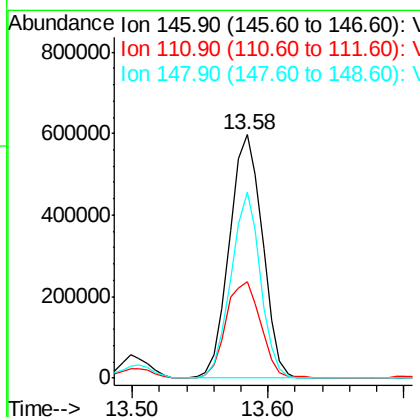
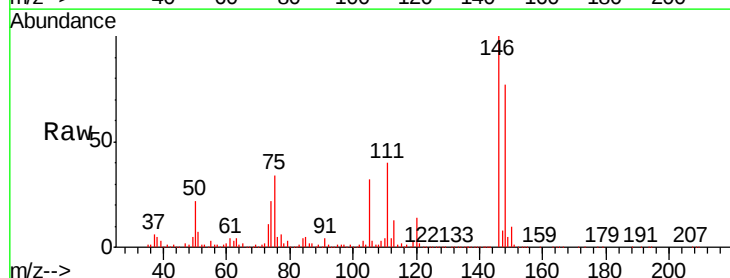
Manual Integrations
 APPROVED

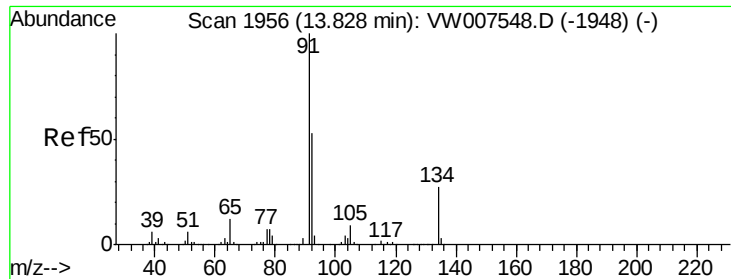
apatel
 12/17/2018 4:40:38 PM



#88
 1,4-Dichlorobenzene
 Concen: 3591.145 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007605.D
 Acq: 16 Dec 2018 02:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.3	61.0
148	68.2	33.5	100.5





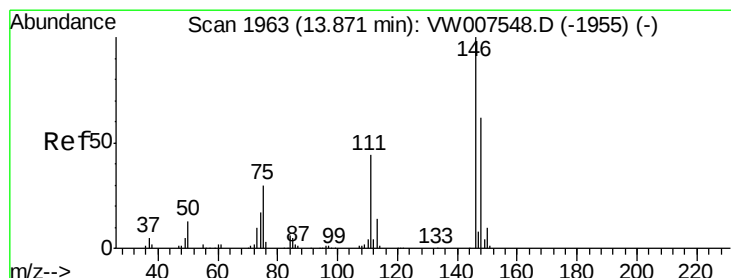
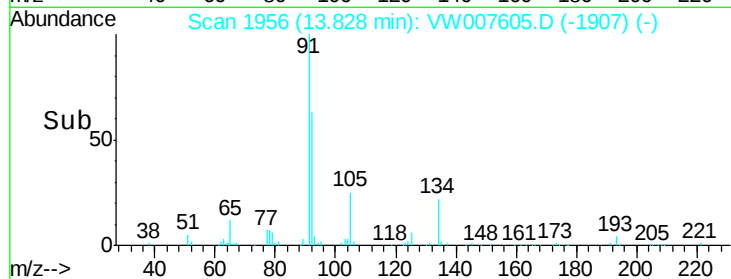
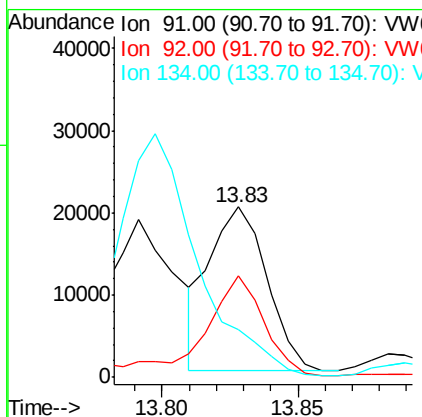
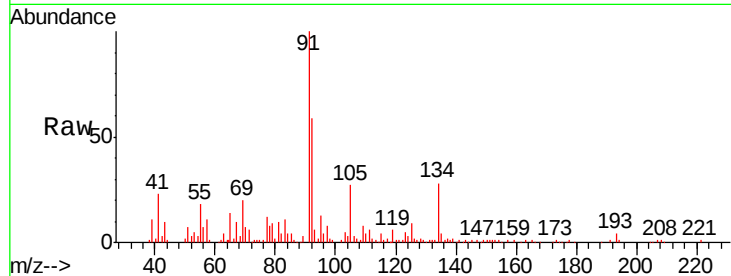
#89
n-Butylbenzene
Concen: 54.326 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.1	25.7	77.1
134	0.0	13.4	40.2

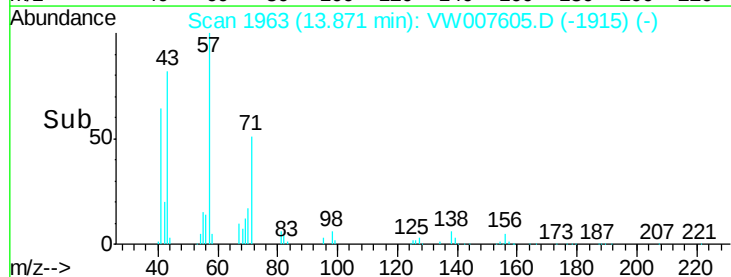
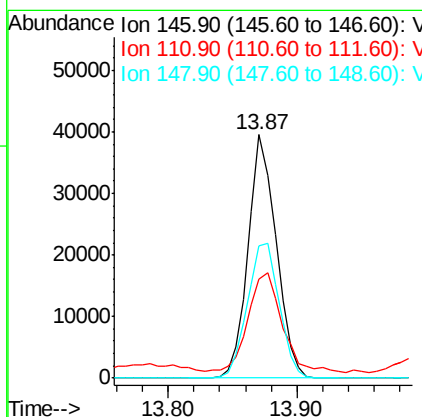
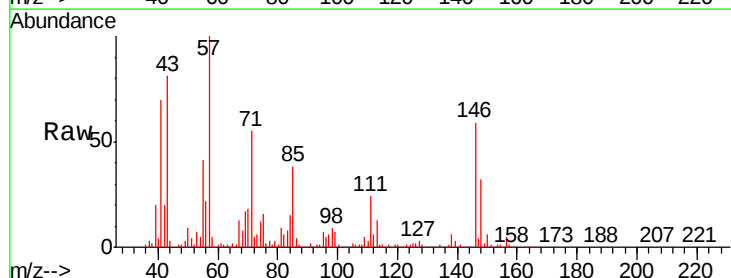
Manual Integrations
APPROVED

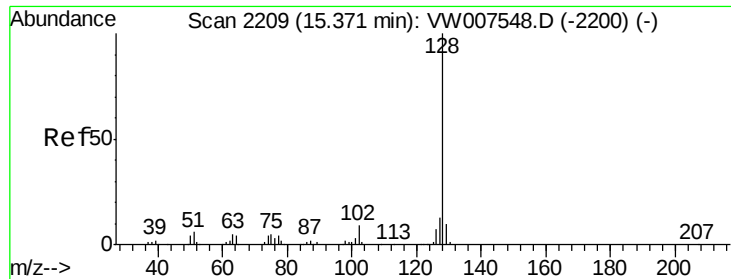
apatel
12/17/2018 4:40:38 PM



#91
1,2-Dichlorobenzene
Concen: 238.239 ug/l
RT: 13.87 min Scan# 1963
Delta R.T. -0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.5	22.4	67.2
148	62.9	32.4	97.2





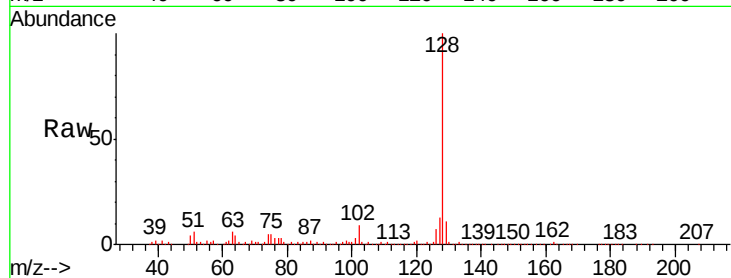
#95
Naphthalene
Concen: 1069.406 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW007605.D
Acq: 16 Dec 2018 02:57

Instrument :
MSVOA_W
ClientSampleId :
P001-SD012-0612-01

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.5	10.2	15.4
129	11.3	8.3	12.5

Manual Integrations
APPROVED

apatel
12/17/2018 4:40:38 PM



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

