

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY123019\
 Data File : VY001124.D
 Acq On : 30 Dec 2019 14:40
 Operator : SY/MD
 Sample : K6462-04
 Misc : 5.10G/5ML/MSVOA Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 K500-4

Manual Integrations
 APPROVED

apatel
 12/31/2019 12:08:42 PM

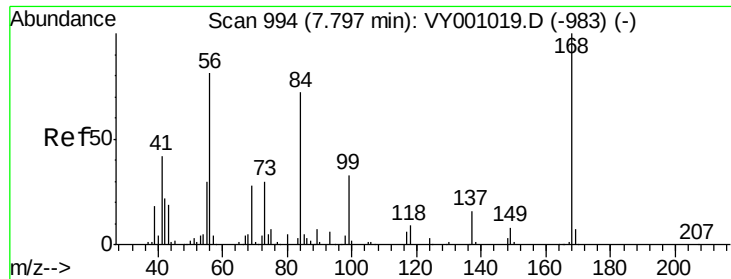
Quant Time: Dec 31 06:34:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	6901	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	14330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	14402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	5961	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	4924	72.34	ug/l	0.00
Spiked Amount			Recovery	=	144.68%	
35) Dibromofluoromethane	7.72	113	2119	25.11	ug/l	0.00
Spiked Amount			Recovery	=	50.22%	
50) Toluene-d8	10.18	98	25693	77.91	ug/l	0.00
Spiked Amount			Recovery	=	155.82%	
62) 4-Bromofluorobenzene	12.47	95	22738	188.59	ug/l	0.00
Spiked Amount			Recovery	=	377.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
39) Methylcyclohexane	9.19	83	35606	196.131	ug/l #	91
52) Toluene	10.24	92	10597	41.746	ug/l	99
67) Ethyl Benzene	11.59	91	375062	698.000	ug/l	97
68) m/p-Xylenes	11.69	106	1141735	5596.042	ug/l	99
69) o-Xylene	12.03	106	656874	3422.273	ug/l	100
73) Isopropylbenzene	12.33	105	155376	336.830	ug/l	96
78) n-propylbenzene	12.67	91	581449	1034.456	ug/l	97
80) 1,3,5-Trimethylbenzene	12.81	105	1312781	3471.899	ug/l	99
83) tert-Butylbenzene	13.07	119	5845m	18.415	ug/l	
84) 1,2,4-Trimethylbenzene	13.12	105	4186424	11017.964	ug/l	99
85) sec-Butylbenzene	13.25	105	249520	533.247	ug/l #	76
86) p-Isopropyltoluene	13.37	119	144135	355.985	ug/l	97
89) n-Butylbenzene	13.69	91	291236	714.929	ug/l #	77
95) Naphthalene	15.23	128	81573	279.590	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

ClientSampled :

K500-4

Tot Ion:168 Resp: 6901

Ion Ratio Lower Upper

168 100

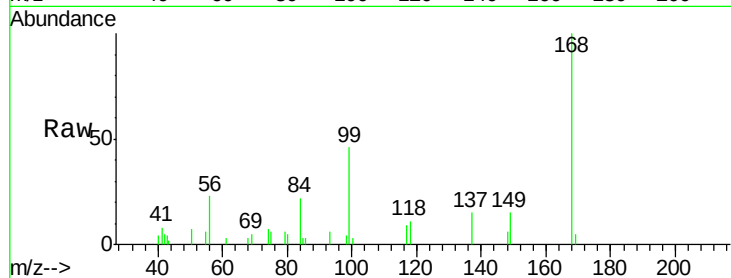
99 46.3 44.0 66.0

Manual Integrations

APPROVED

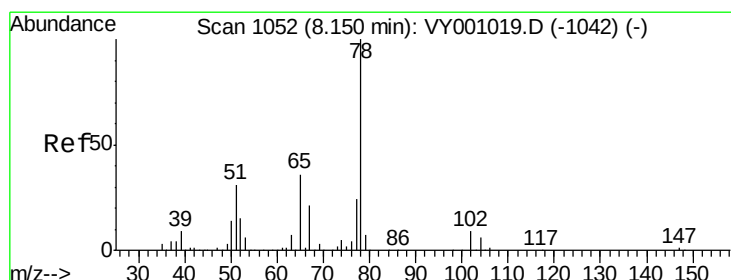
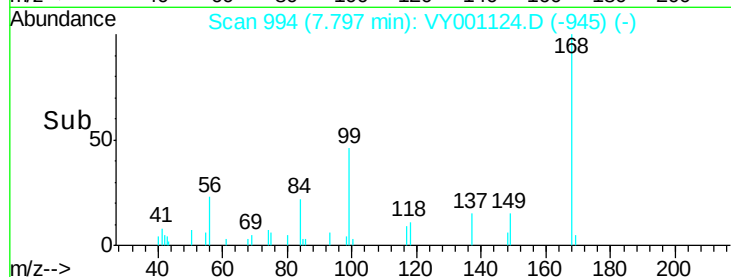
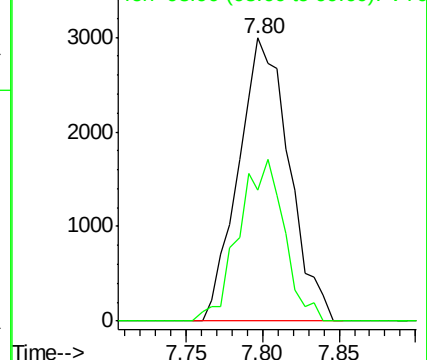
apatel

12/31/2019 12:08:42 PM



Abundance Ion 167.90 (167.60 to 168.60): VY001124.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY001124.D (-945) (-)



#33

1,2-Dichloroethane-d4

Concen: 72.345 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY001124.D

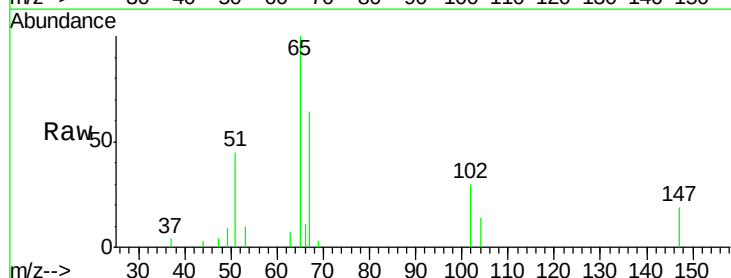
Acq: 30 Dec 2019 14:40

Tgt Ion: 65 Resp: 4924

Ion Ratio Lower Upper

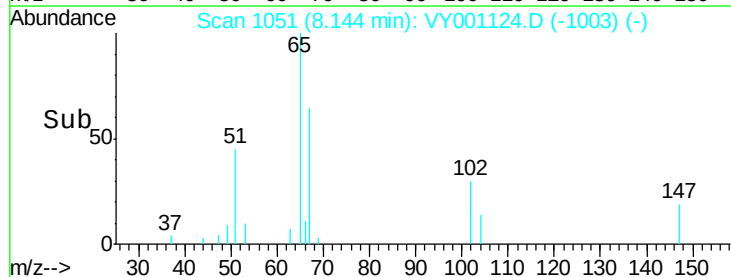
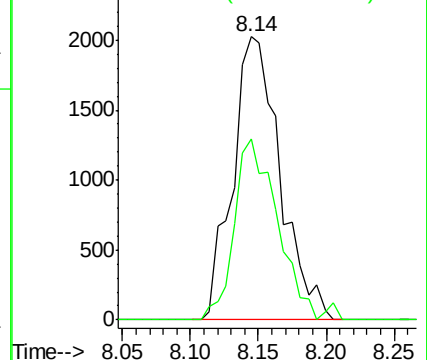
65 100

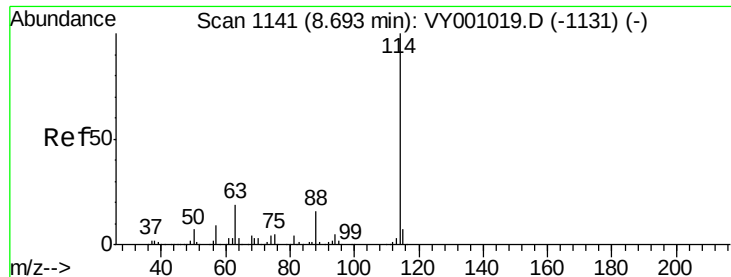
67 57.9 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY001124.D (-1003) (-)

Ion 66.90 (66.60 to 67.60): VY001124.D (-1003) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

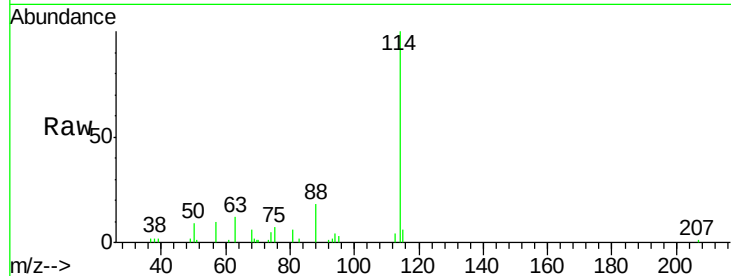
ClientSampled :

K500-4

Tot Ion:	114	Resp:	14330
Ion Ratio	Lower	Upper	
114	100		
63	11.8	0.0	37.0
88	17.8	0.0	32.0

Manual Integrations
APPROVED

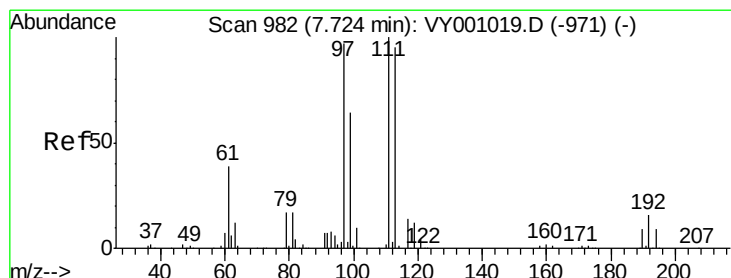
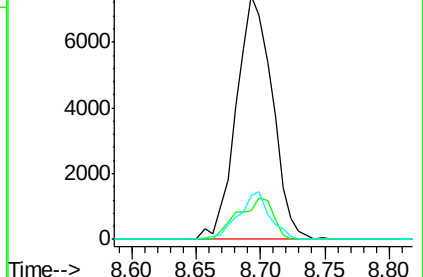
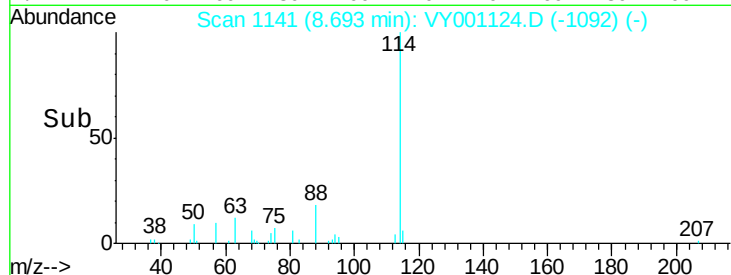
apatel
12/31/2019 12:08:42 PM



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 25.112 ug/l

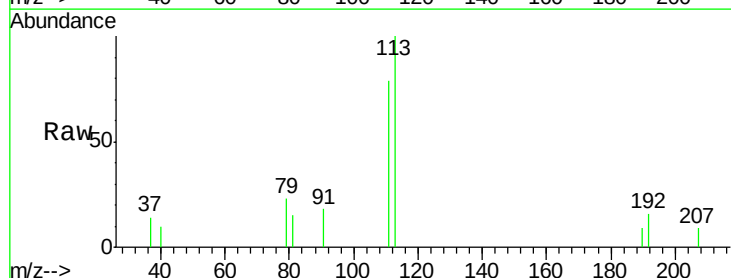
RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

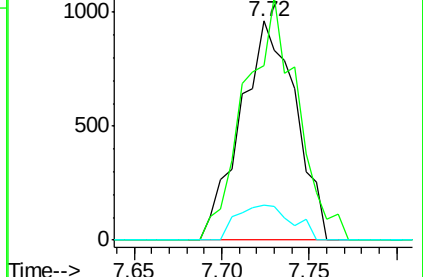
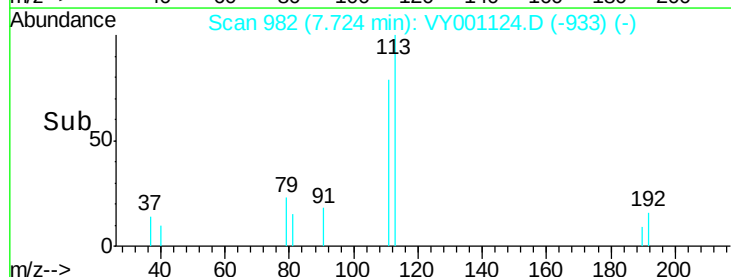
Tgt Ion:	113	Resp:	2119
Ion Ratio	Lower	Upper	
113	100		
111	106.1	83.0	124.4
192	16.0	14.6	21.8

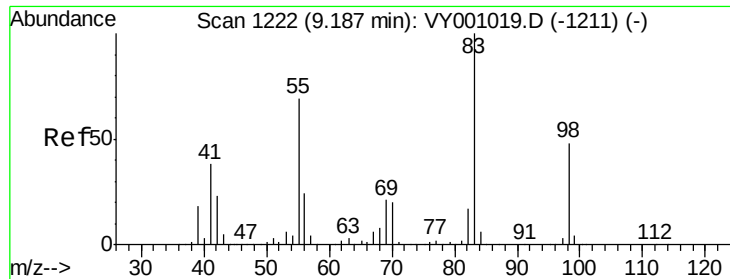


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





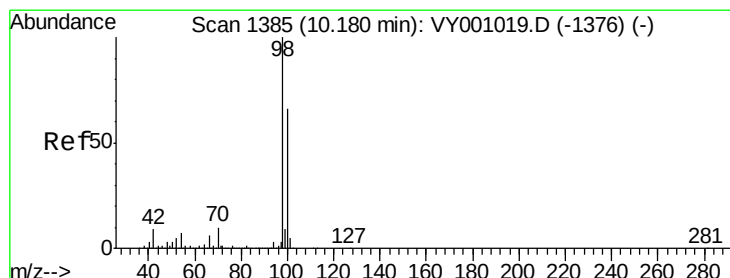
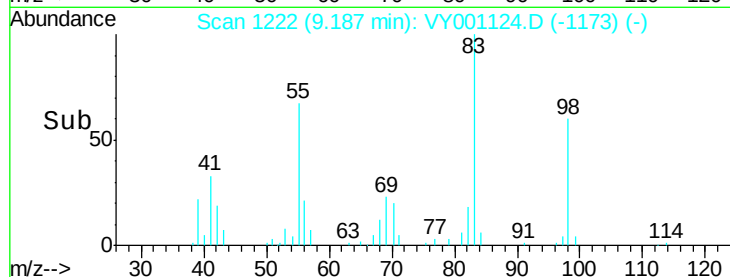
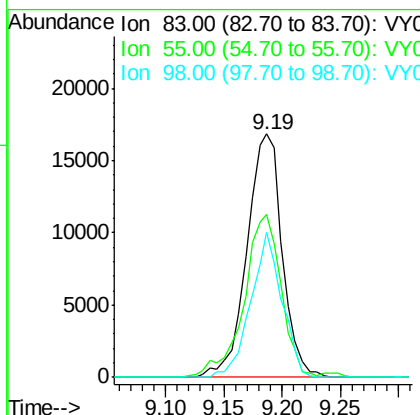
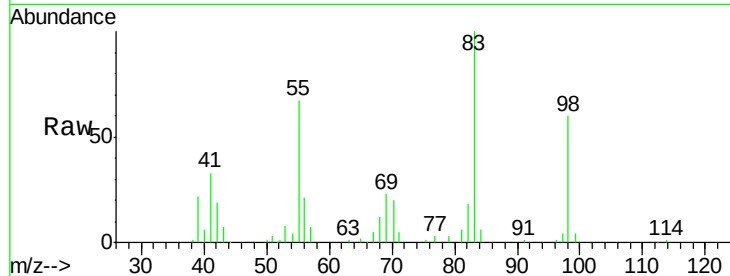
#39
Methylcyclohexane
Concen: 196.131 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_Y
ClientSampled :
K500-4

Tot Ion	83	Resp	35606
Ion Ratio	100	Lower	Upper
55	66.6	55.1	82.7
98	59.7	38.3	57.5

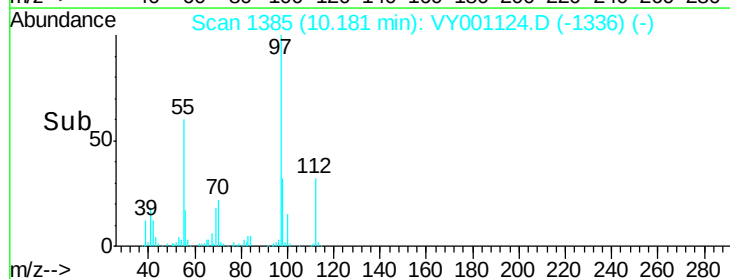
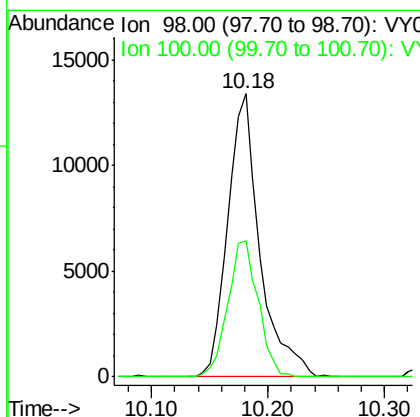
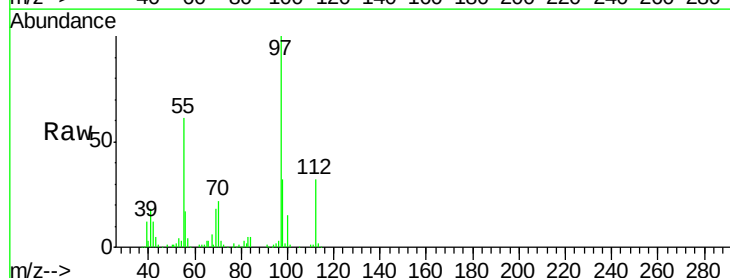
Manual Integrations
APPROVED

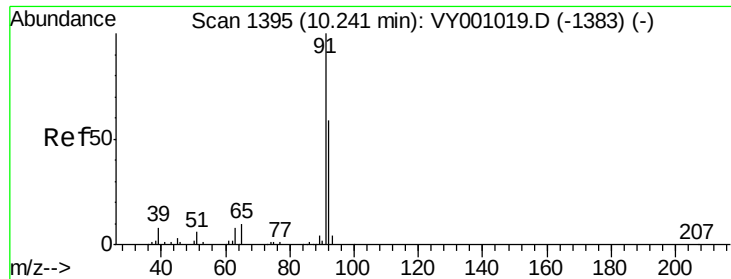
apatel
12/31/2019 12:08:42 PM



#50
Toluene-d8
Concen: 77.912 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Tgt Ion	98	Resp	25693
Ion Ratio	100	Lower	Upper
100	45.5	53.0	79.4





#52

Toluene

Concen: 41.746 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

ClientSampled :

K500-4

Tot Ion: 92 Resp: 10597

Ion Ratio Lower Upper

92 100

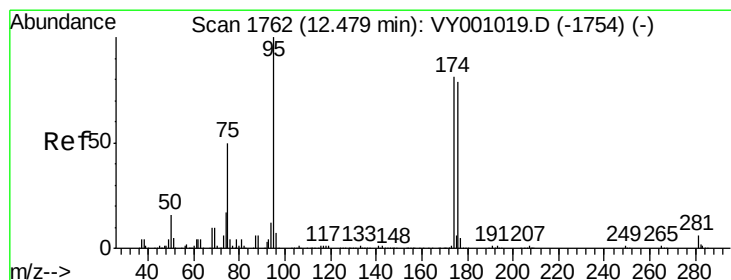
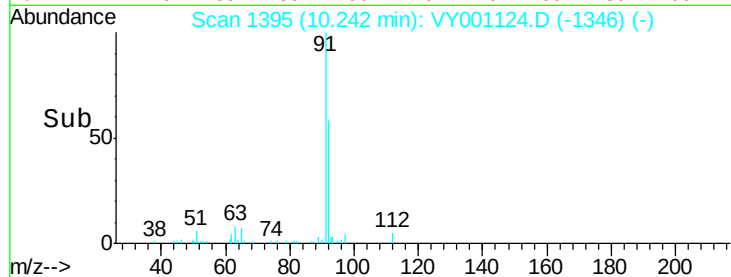
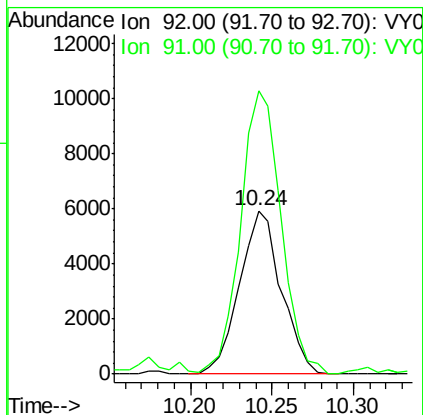
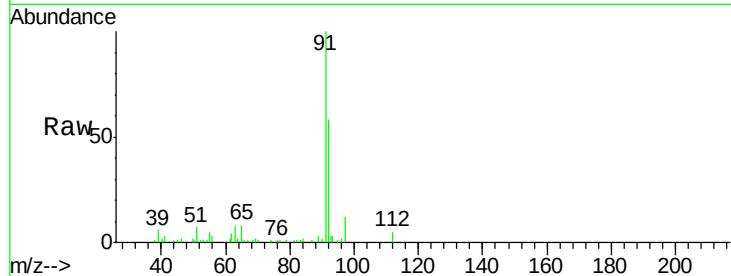
91 167.8 135.7 203.5

Manual Integrations

APPROVED

apatel

12/31/2019 12:08:42 PM



#62

4-Bromofluorobenzene

Concen: 188.590 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

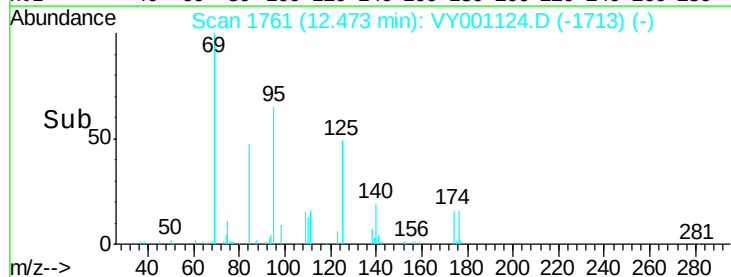
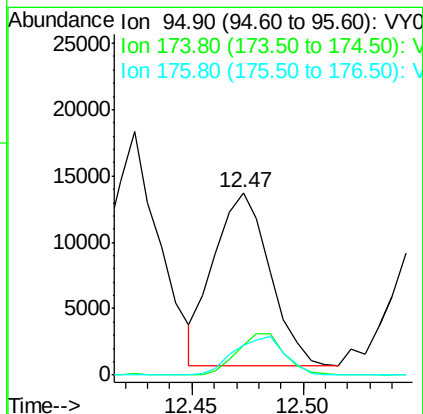
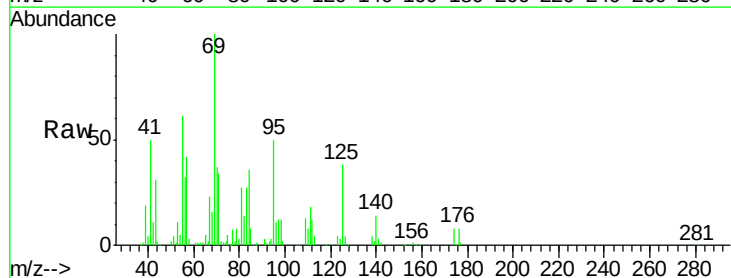
Tgt Ion: 95 Resp: 22738

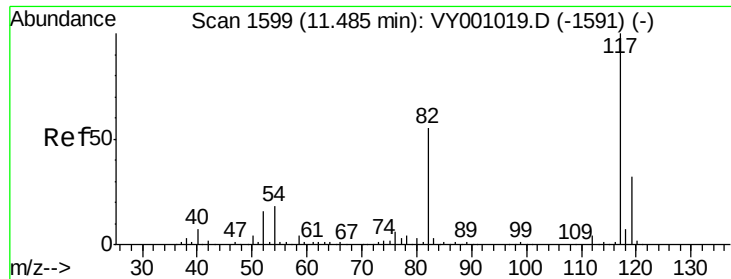
Ion Ratio Lower Upper

95 100

174 20.4 0.0 156.4

176 20.3 0.0 155.0





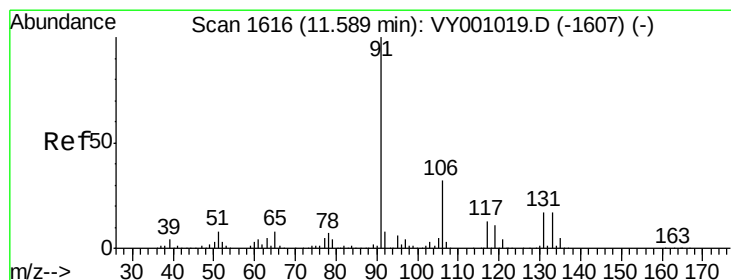
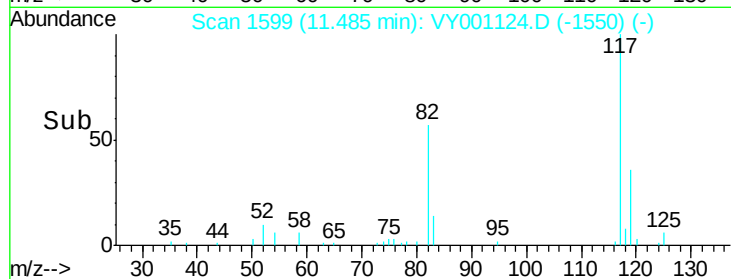
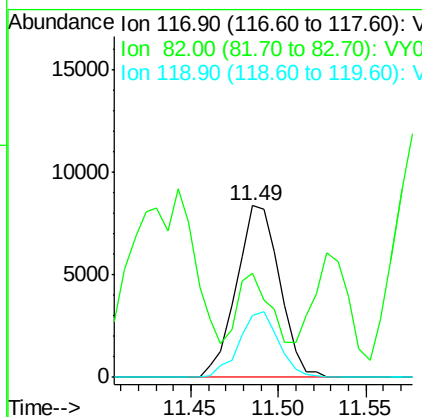
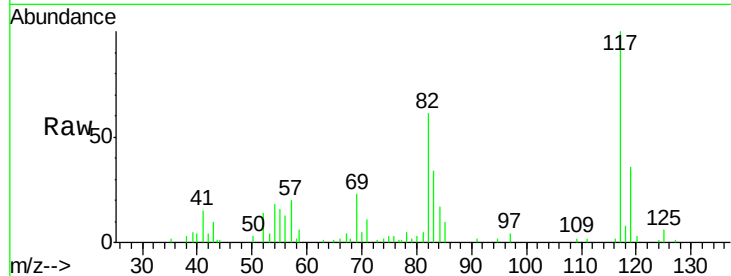
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_Y
ClientSampleId :
K500-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		14402		
82	0.0	43.8	65.8#		
119	36.4	25.8	38.6		

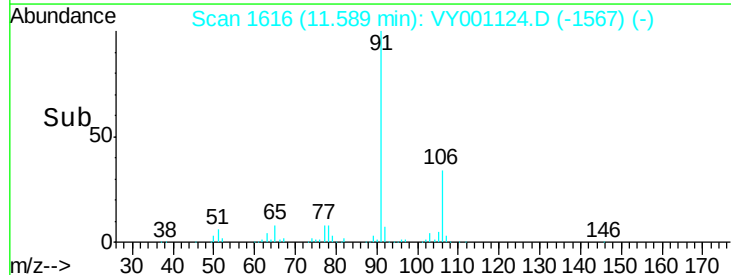
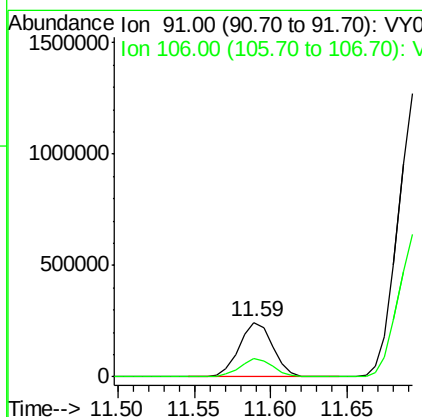
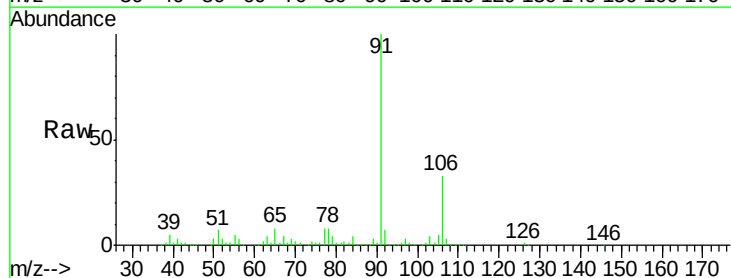
Manual Integrations
APPROVED

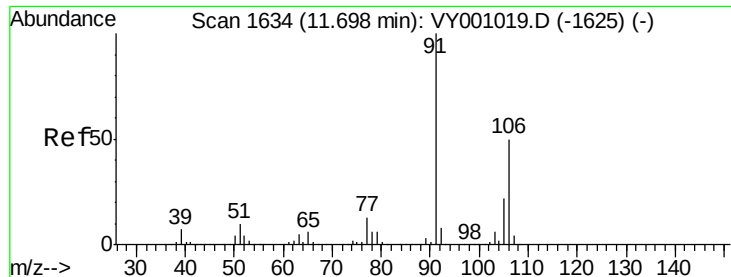
apatel
12/31/2019 12:08:42 PM



#67
Ethyl Benzene
Concen: 698.000 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		375062		
106	33.4	25.3	37.9		





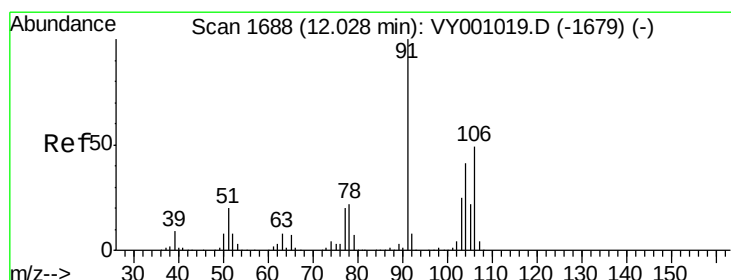
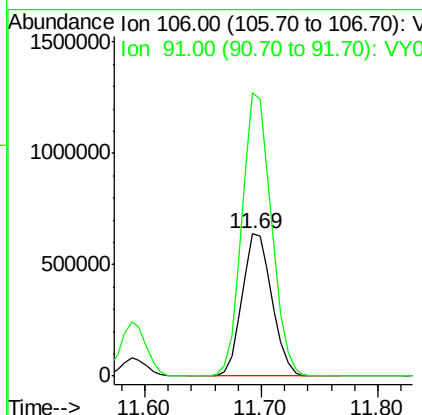
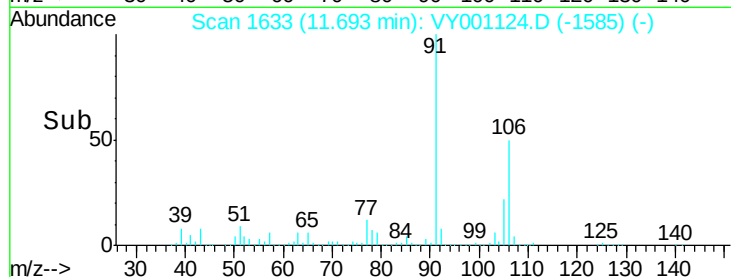
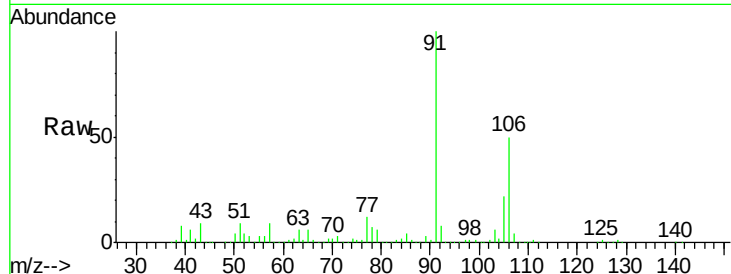
#68
m/p-Xylenes
Concen: 5596.042 ug/l
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_Y
ClientSampleId :
K500-4

Tot Ion:106 Resp: 1141735
Ion Ratio Lower Upper
106 100
91 197.0 156.4 234.6

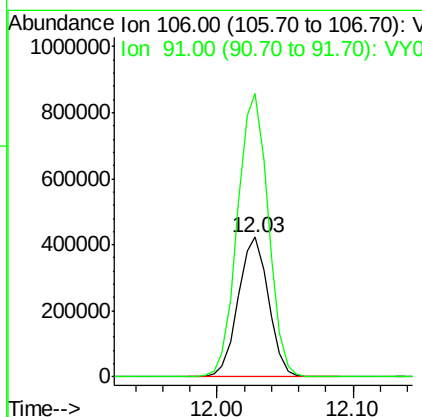
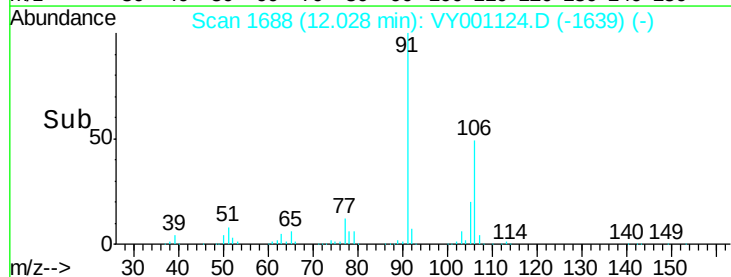
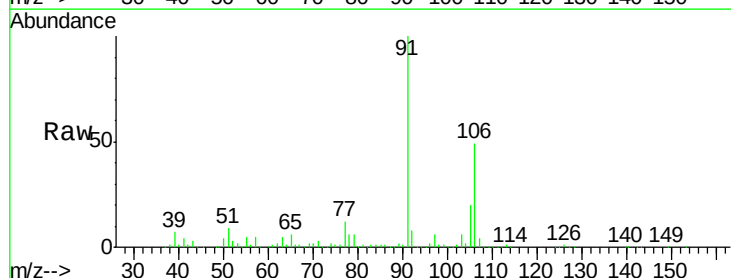
Manual Integrations
APPROVED

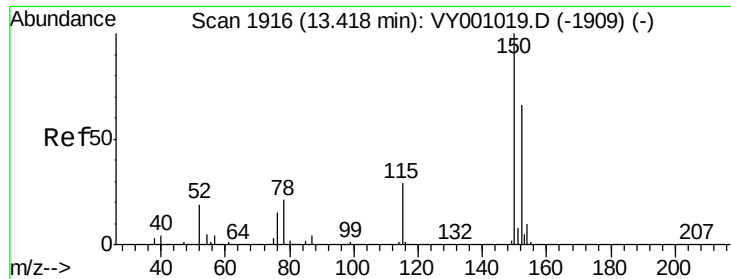
apatel
12/31/2019 12:08:42 PM



#69
o-Xylene
Concen: 3422.273 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Tgt Ion:106 Resp: 656874
Ion Ratio Lower Upper
106 100
91 205.8 103.0 309.0





#72

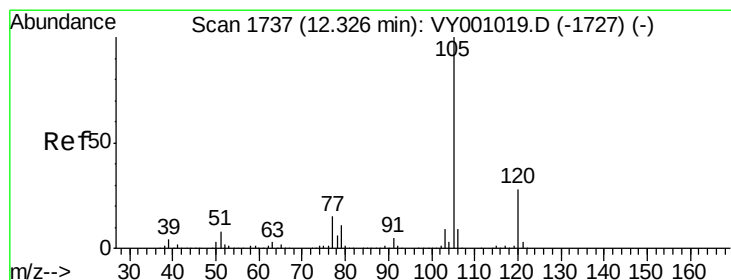
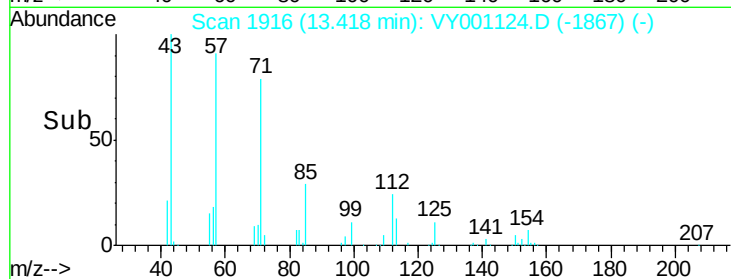
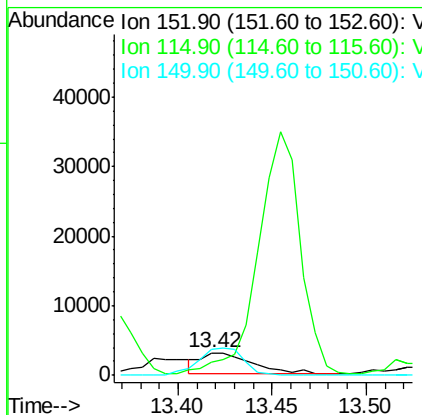
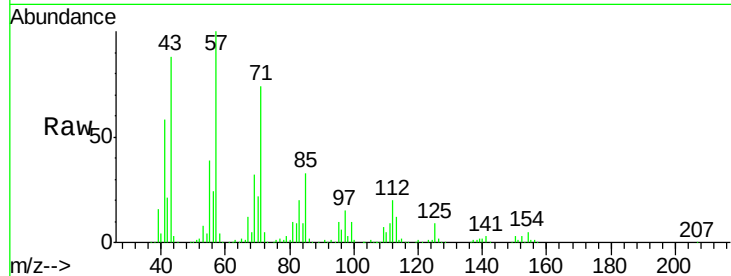
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_Y
ClientSampleId :
K500-4

Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	29.8	89.3#
150	109.3	0.0	352.6

Manual Integrations
APPROVED

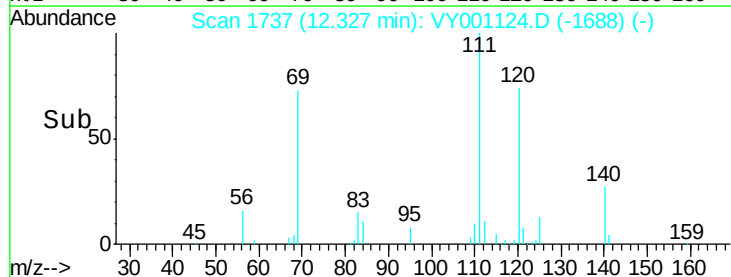
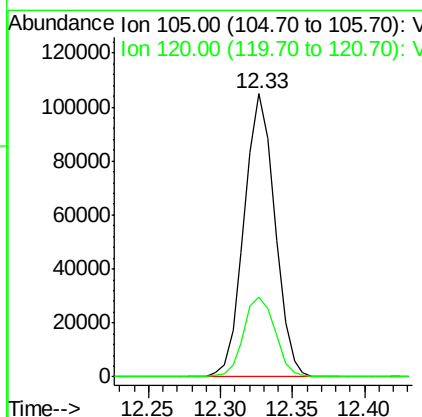
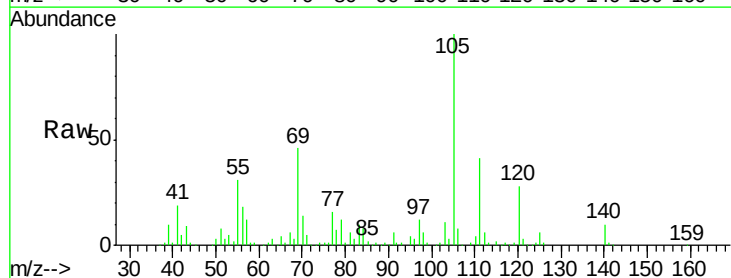
apatel
12/31/2019 12:08:42 PM

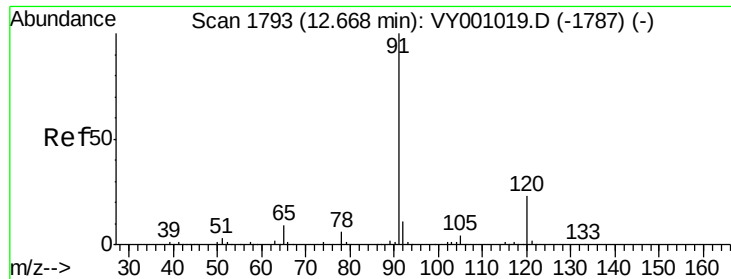


#73

Isopropylbenzene
Concen: 336.830 ug/l
RT: 12.33 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.7	13.4	40.2





#78

n-propylbenzene

Concen: 1034.456 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

ClientSampled :

K500-4

Tot Ion: 91 Resp: 581449

Ion Ratio Lower Upper

91 100

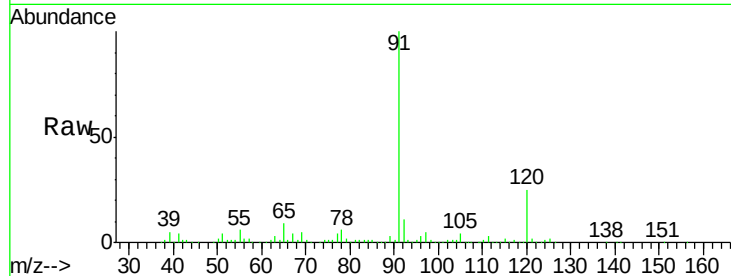
120 24.5 11.4 34.2

Manual Integrations

APPROVED

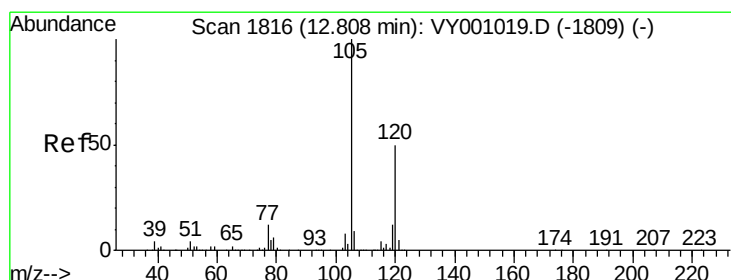
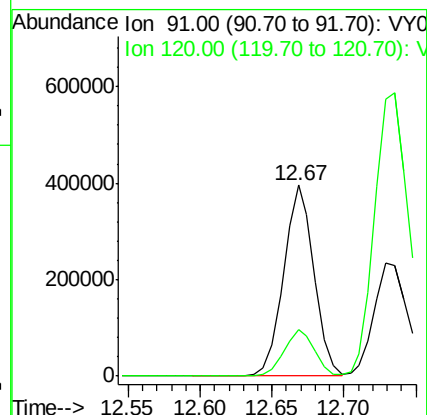
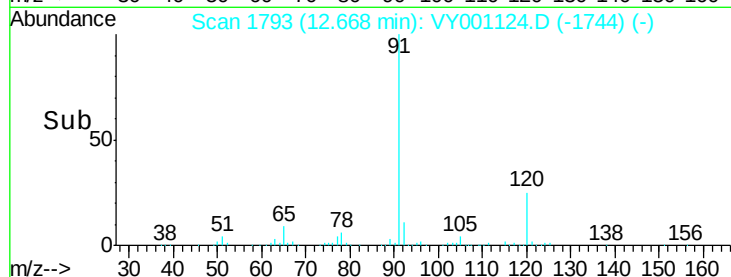
apatel

12/31/2019 12:08:42 PM



Abundance Ion 91.00 (90.70 to 91.70): VY001124.D (-1744) (-)

Ion 120.00 (119.70 to 120.70): VY001124.D (-1744) (-)



#80

1,3,5-Trimethylbenzene

Concen: 3471.899 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY001124.D

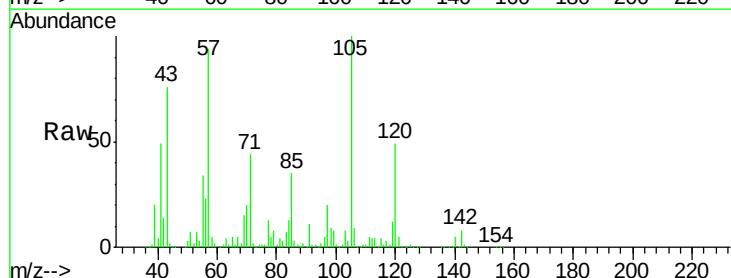
Acq: 30 Dec 2019 14:40

Tgt Ion: 105 Resp: 1312781

Ion Ratio Lower Upper

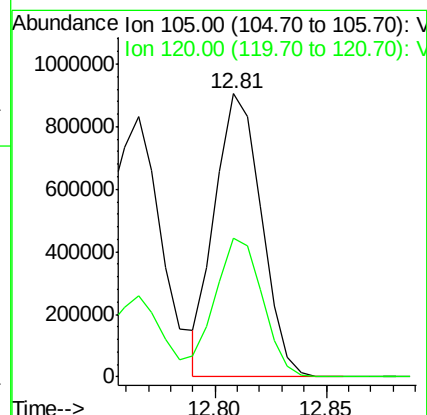
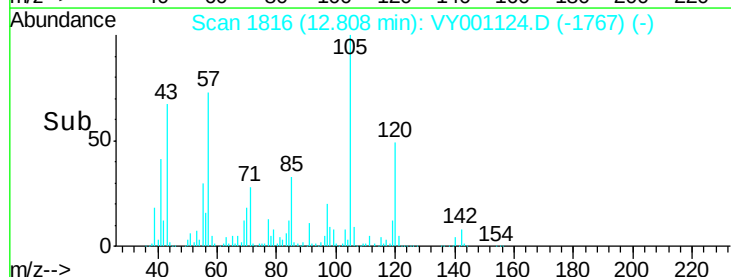
105 100

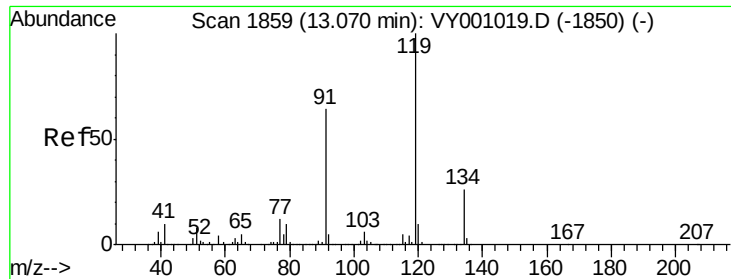
120 50.9 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): VY001124.D (-1767) (-)

Ion 120.00 (119.70 to 120.70): VY001124.D (-1767) (-)





#83

tert-Butylbenzene

Concen: 18.415 ug/l m

RT: 13.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

ClientSampleId :

K500-4

Tot Ion:119 Resp: 5845

Ion Ratio Lower Upper

119 100

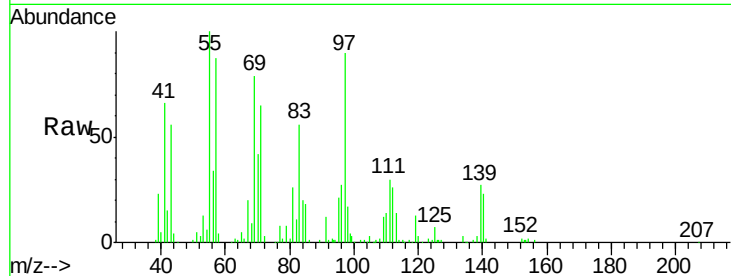
91 7670.2 31.9 95.7

134 0.0 13.6 40.7#

Manual Integrations
APPROVED

apatel

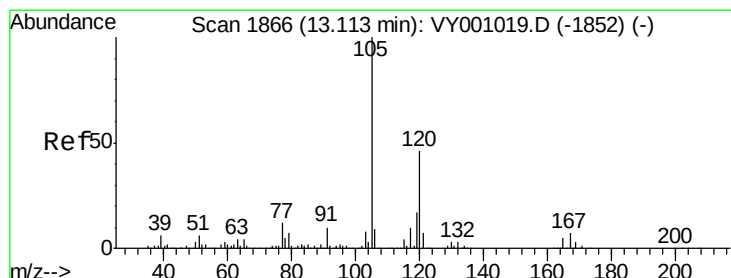
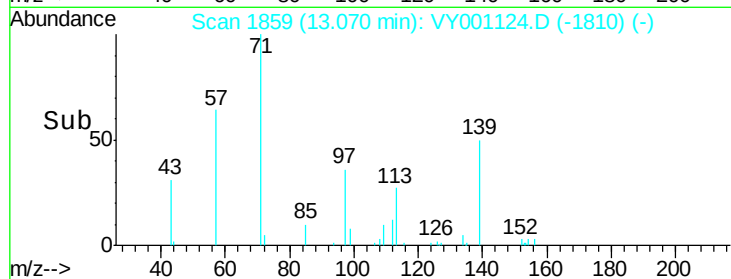
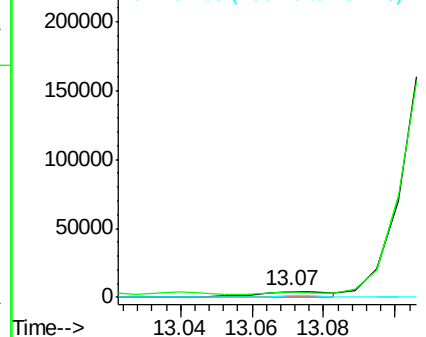
12/31/2019 12:08:42 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 11017.964 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.01 min

Lab File: VY001124.D

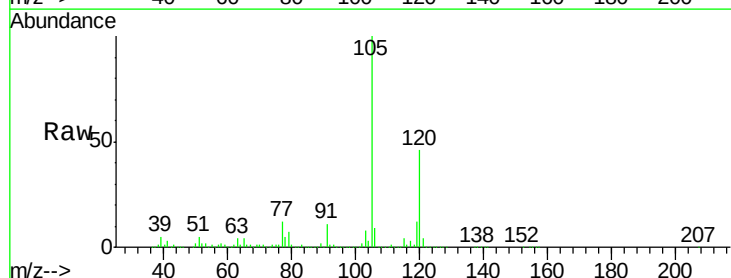
Acq: 30 Dec 2019 14:40

Tgt Ion:105 Resp: 4186424

Ion Ratio Lower Upper

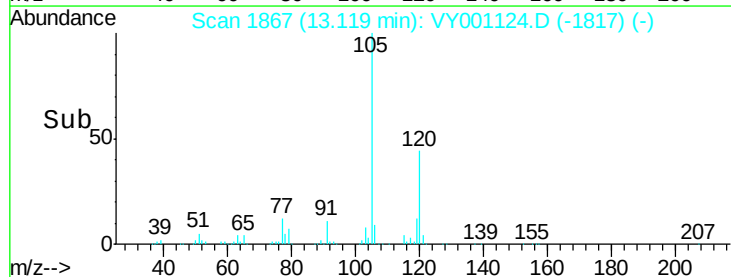
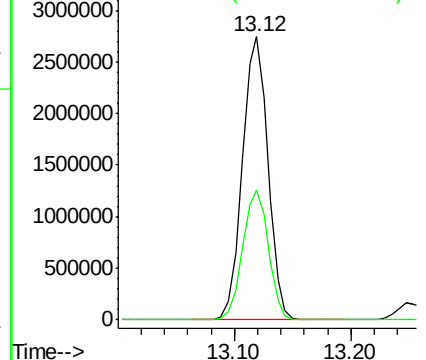
105 100

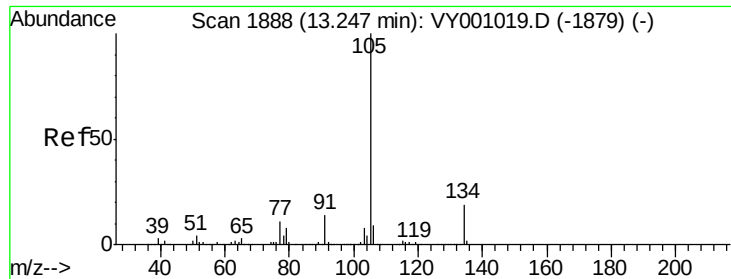
120 46.2 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 533.247 ug/l

RT: 13.25 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_Y

ClientSampled :

K500-4

Tot Ion:105 Resp: 249520

Ion Ratio Lower Upper

105 100

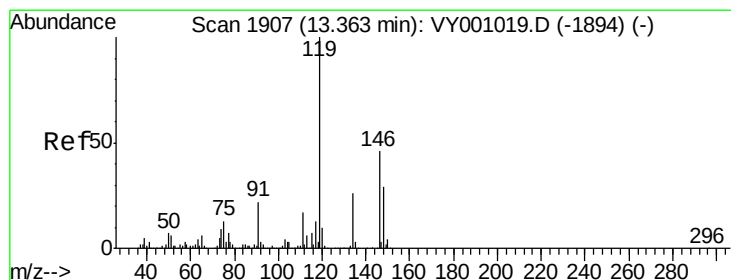
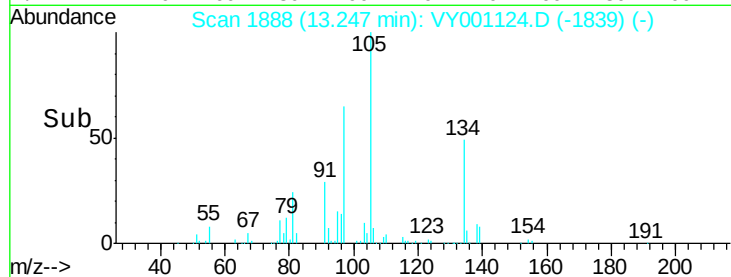
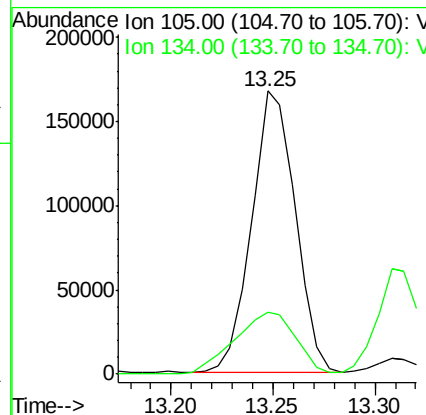
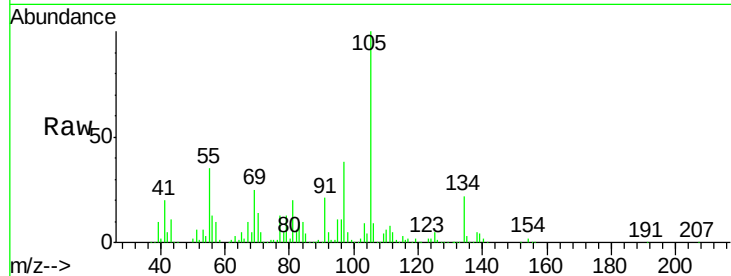
134 30.9 10.0 30.0#

Manual Integrations

APPROVED

apatel

12/31/2019 12:08:42 PM



#86

p-Isopropyltoluene

Concen: 355.985 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.01 min

Lab File: VY001124.D

Acq: 30 Dec 2019 14:40

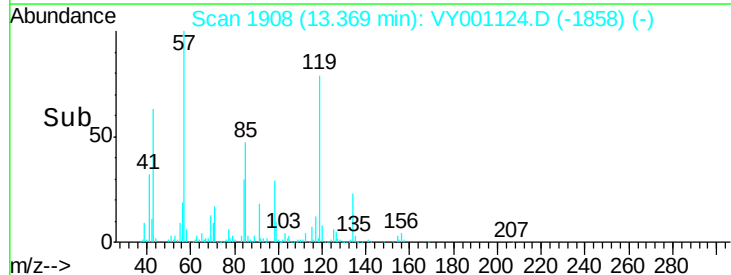
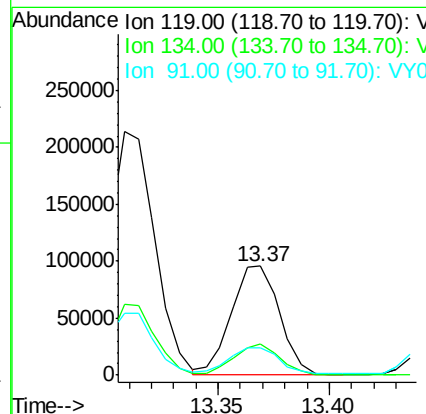
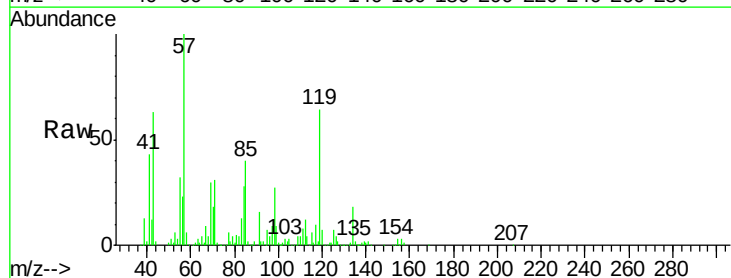
Tgt Ion:119 Resp: 144135

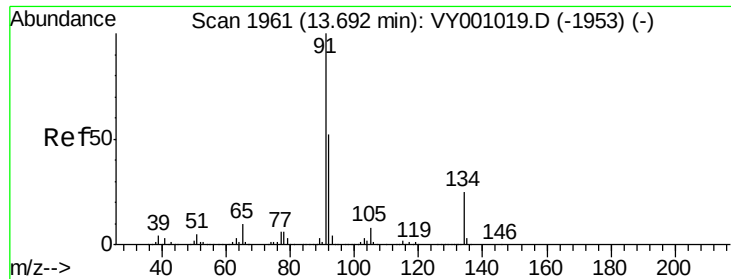
Ion Ratio Lower Upper

119 100

134 27.5 13.6 40.7

91 25.1 11.4 34.1





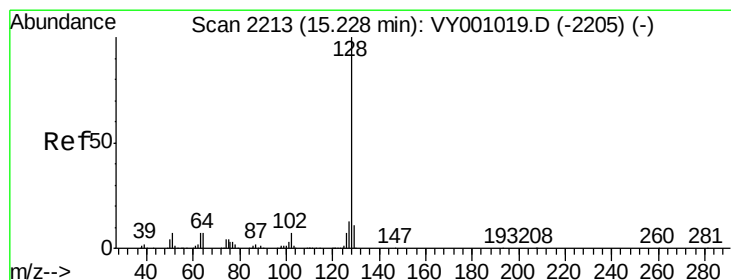
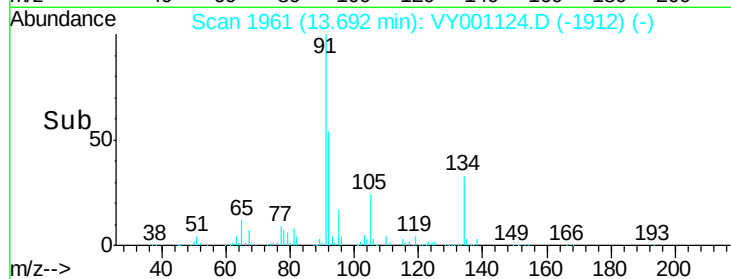
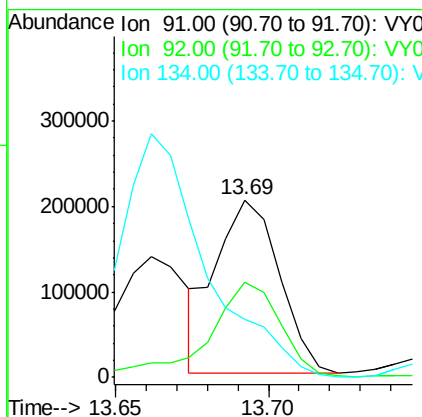
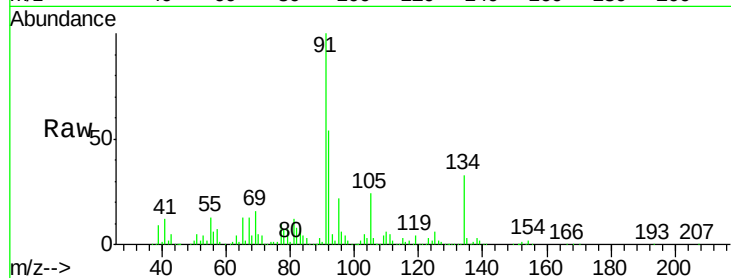
#89
n-Butylbenzene
Concen: 714.929 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_Y
ClientSampled :
K500-4

Tot Ion	Ratio	Resp	Lower	Upper
91	100	291236		
92	61.3	26.9	80.7	
134	0.0	12.7	38.0	

Manual Integrations
APPROVED

apatel
12/31/2019 12:08:42 PM



#95
Naphthalene
Concen: 279.590 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.01 min
Lab File: VY001124.D
Acq: 30 Dec 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	81573		
127	14.5	9.9	14.9	
129	14.1	8.6	13.0	

