

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028084.D
 Acq On : 13 Nov 2018 12:04
 Operator : MD/SY
 Sample : J5921-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SP-UST-MIDDLE

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:29 AM

Quant Time: Nov 14 07:21:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	177983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	333028	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	306941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	145300	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	153367	57.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.92%	
35) Dibromofluoromethane	4.88	113	110175	52.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.94%	
50) Toluene-d8	7.57	98	459864	56.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.38%	
62) 4-Bromofluorobenzene	10.31	95	157176	52.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.08%	
Target Compounds						
					Qvalue	
16) Acetone	2.32	43	27942	17.019	ug/l	98
25) 2-Butanone	4.28	43	10597	4.057	ug/l	92
27) cis-1,2-Dichloroethene	4.23	96	1104	0.457	ug/l	67
31) Cyclohexane	5.00	56	826829	184.256	ug/l	99
39) Methylcyclohexane	6.42	83	688813	163.737	ug/l	97
40) Benzene	5.39	78	296325	27.788	ug/l	100
52) Toluene	7.64	92	22062	3.519	ug/l	93
67) Ethyl Benzene	9.25	91	91665	7.679	ug/l	99
68) m/p-Xylenes	9.38	106	1108617	255.970	ug/l	99
69) o-Xylene	9.78	106	17898	4.092	ug/l	96
73) Isopropylbenzene	10.17	105	58357	5.184	ug/l	96
78) n-propylbenzene	10.59	91	26872	1.994	ug/l #	55
80) 1,3,5-Trimethylbenzene	10.77	105	59914m	6.425	ug/l	
83) tert-Butylbenzene	11.10	119	22770m	2.443	ug/l	
84) 1,2,4-Trimethylbenzene	11.15	105	10537549	1122.274	ug/l	100
85) sec-Butylbenzene	11.32	105	59480m	5.247	ug/l	
86) p-Isopropyltoluene	11.48	119	159849	16.866	ug/l	98
95) Naphthalene	13.74	128	3649786	307.160	ug/l	99

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

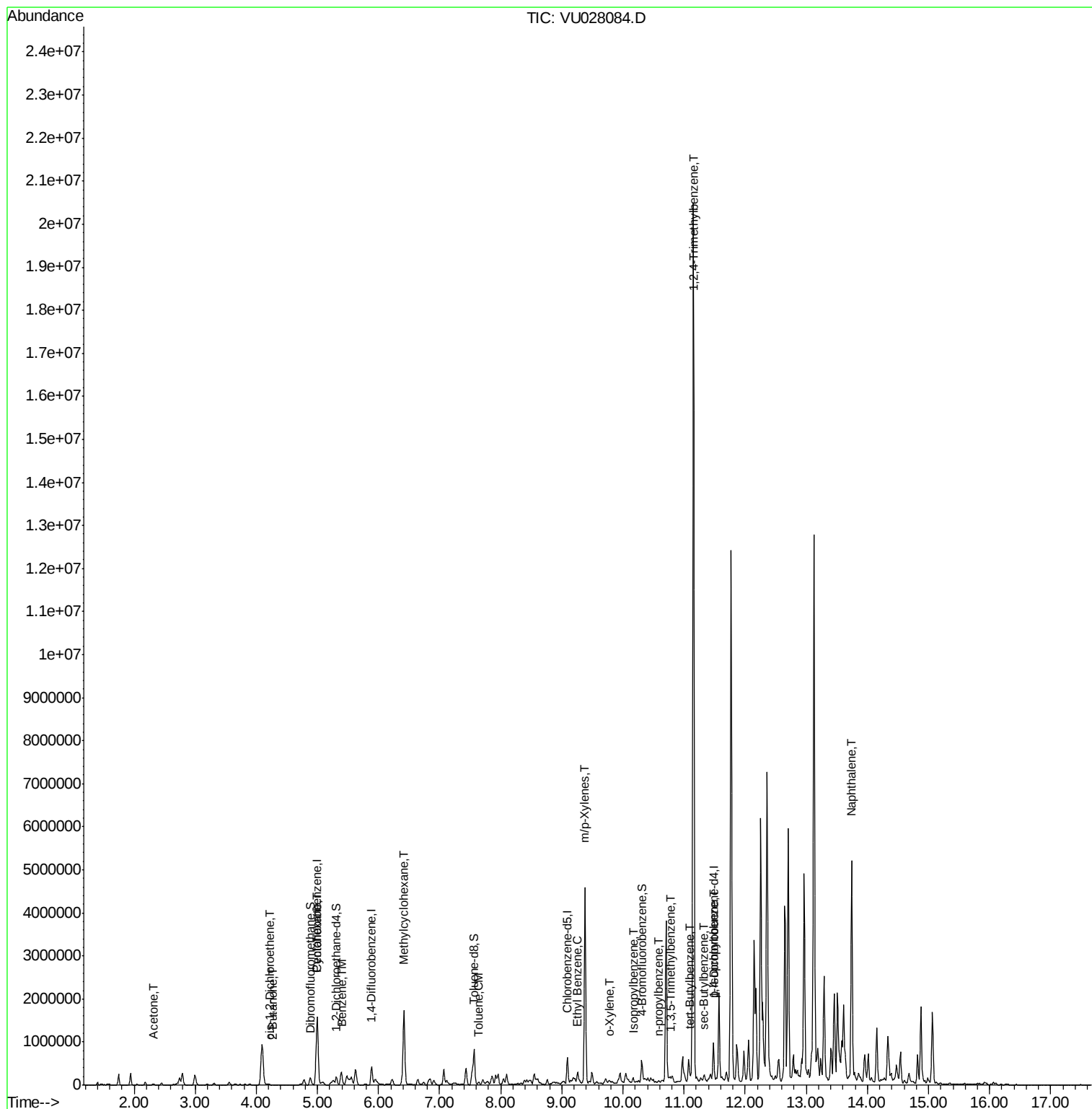
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111318\
Data File : VU028084.D
Acq On : 13 Nov 2018 12:04
Operator : MD/SY
Sample : J5921-08
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:29 AM

Quant Time: Nov 14 07:21:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

Instrument :

MSVOA_U

ClientSampleId :

SP-UST-MIDDLE

Tot Ion:168 Resp: 177983

Ion Ratio Lower Upper

168 100

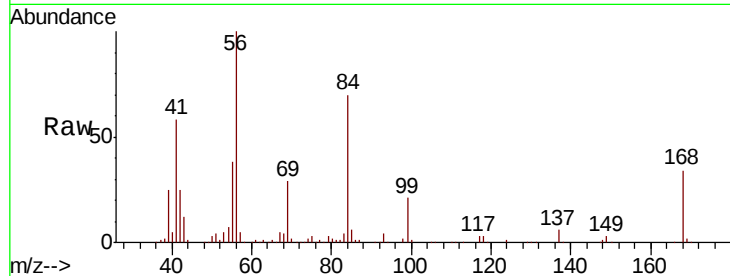
99 61.7 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:29 AM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.98

80000

60000

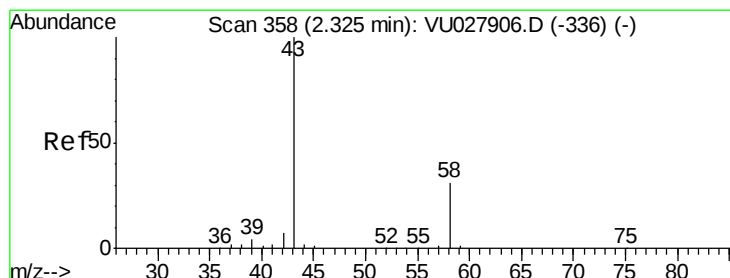
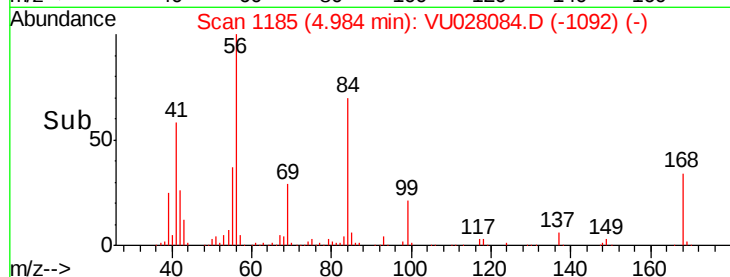
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#16

Acetone

Concen: 17.019 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028084.D

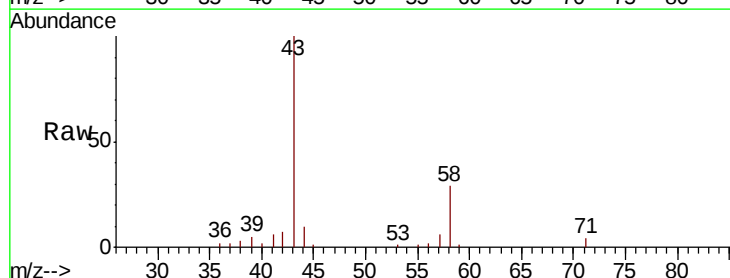
Acq: 13 Nov 2018 12:04

Tgt Ion: 43 Resp: 27942

Ion Ratio Lower Upper

43 100

58 29.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-336) (-)

2.32

15000

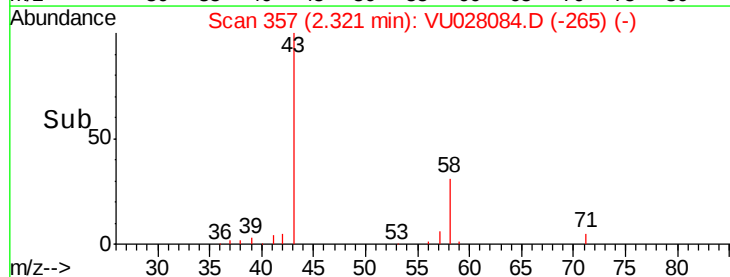
10000

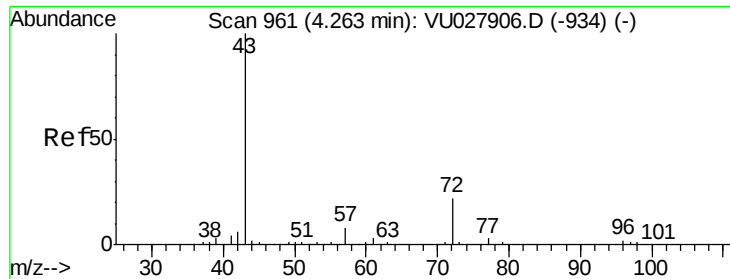
5000

0

2.25 2.30 2.35 2.40

Time-->





#25

2-Butanone

Concen: 4.057 ug/l

RT: 4.28 min Scan# 965

Delta R.T. 0.01 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

Instrument :

MSVOA_U

ClientSampleId :

SP-UST-MIDDLE

Tot Ion: 43 Resp: 10597

Ion Ratio Lower Upper

43 100

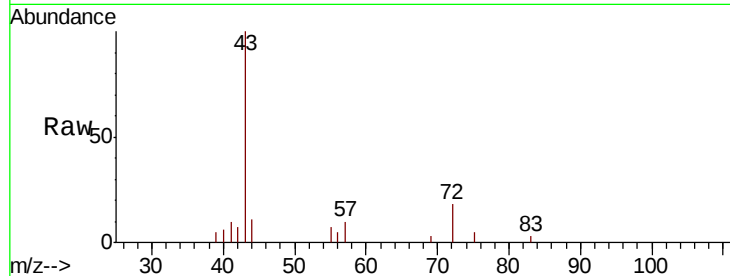
72 18.4 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:29 AM



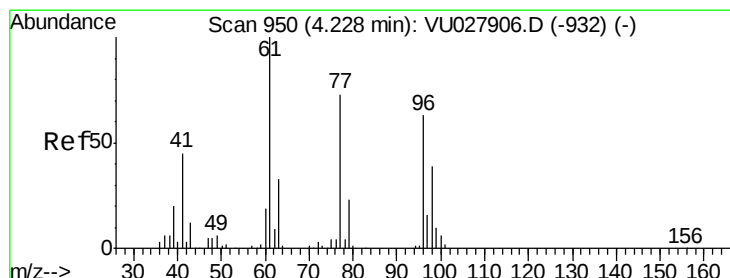
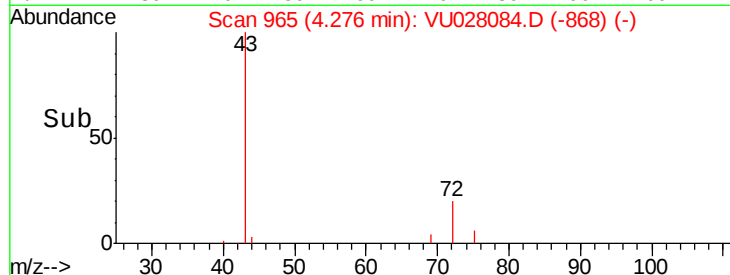
Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-934) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-934) (-)

4.28

4.20 4.25 4.30 4.35 4.40

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.457 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

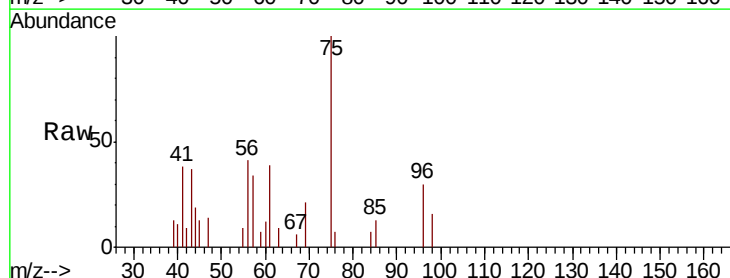
Tgt Ion: 96 Resp: 1104

Ion Ratio Lower Upper

96 100

61 107.2 0.0 329.6

98 57.5 0.0 127.2



Abundance Ion 95.90 (95.60 to 96.60): VU027906.D (-932) (-)

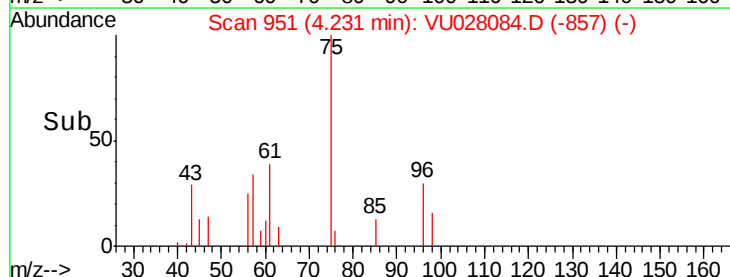
Ion 60.90 (60.60 to 61.60): VU027906.D (-932) (-)

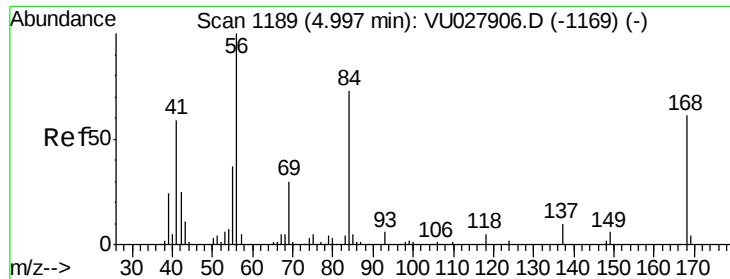
Ion 97.90 (97.60 to 98.60): VU027906.D (-932) (-)

4.23

4.20 4.25

Time-->





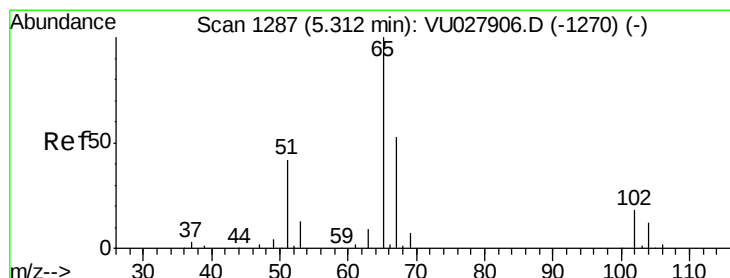
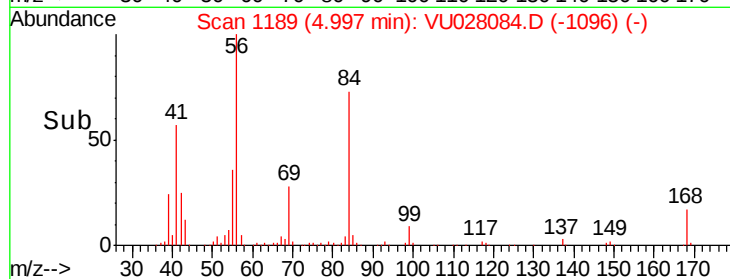
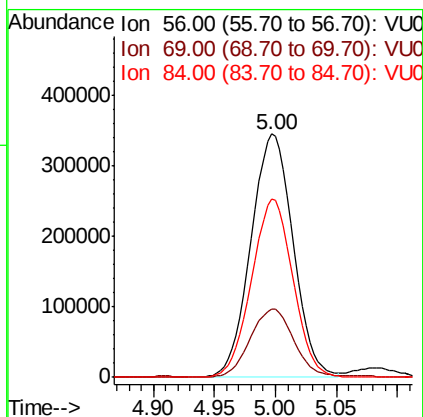
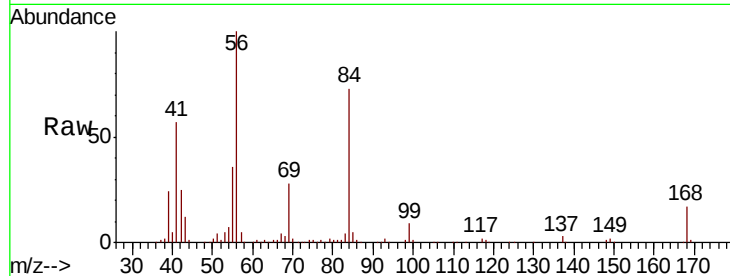
#31
Cyclohexane
Concen: 184.256 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.7	23.7	35.5
84	73.3	58.2	87.4

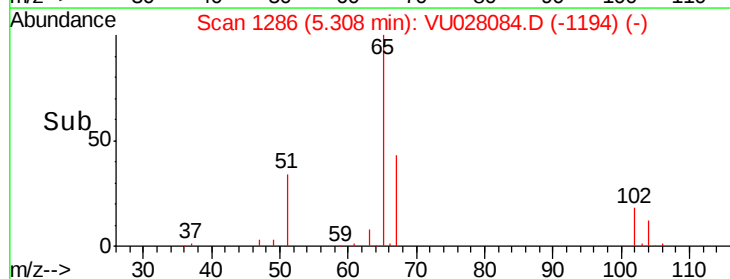
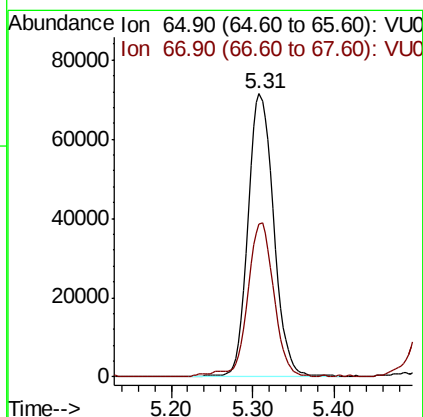
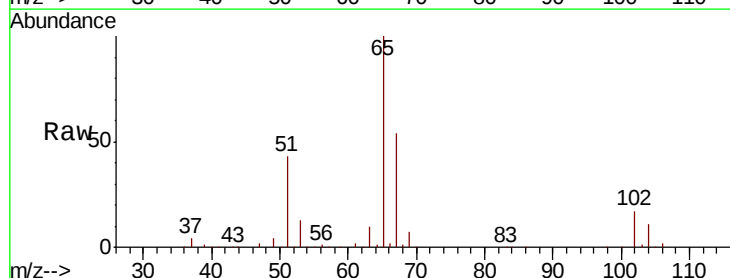
Manual Integrations
APPROVED

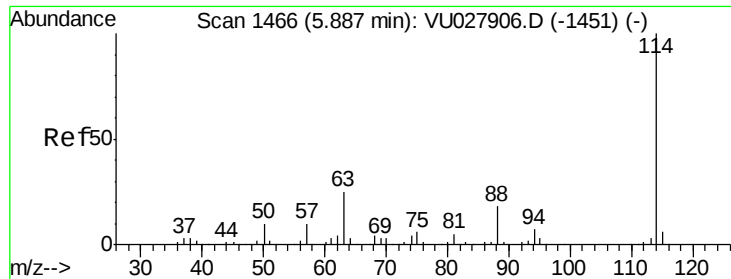
MMDadoda
11/14/2018 9:34:29 AM



#33
1,2-Dichloroethane-d4
Concen: 57.958 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

Instrument :

MSVOA_U

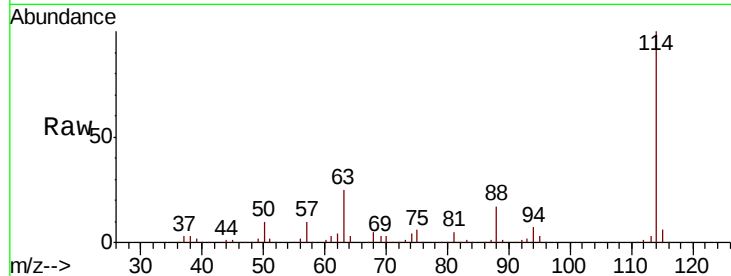
ClientSampleId :

SP-UST-MIDDLE

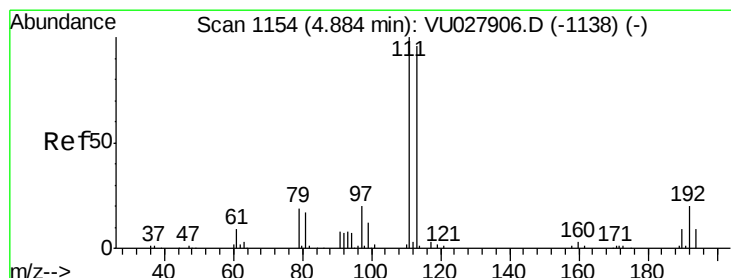
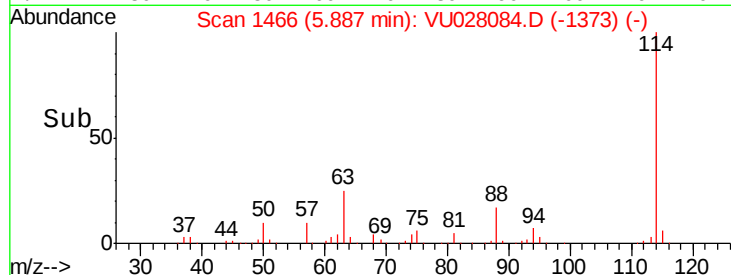
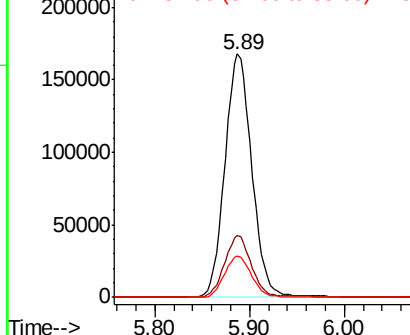
Tot Ion:	114	Resp:	333028
Ion Ratio	Lower	Upper	
114	100		
63	25.3	0.0	50.8
88	17.2	0.0	35.8

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:29 AM



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU
Ion 87.90 (87.60 to 88.60): VU



#35

Dibromofluoromethane

Concen: 52.469 ug/l

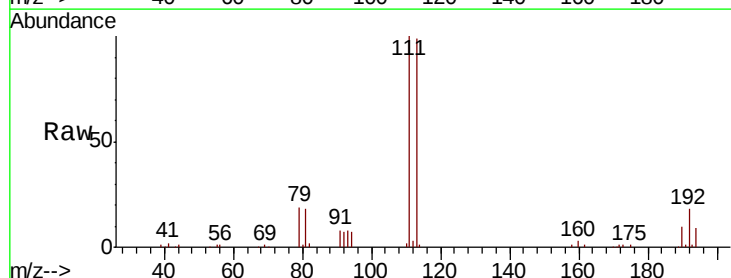
RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

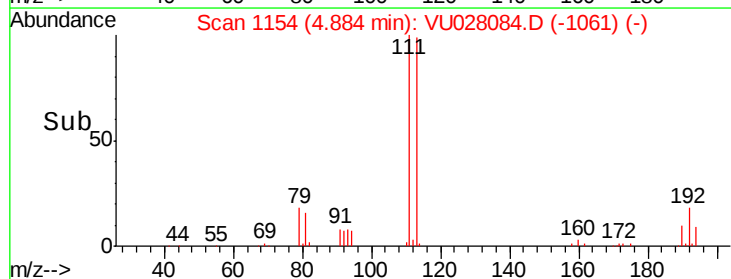
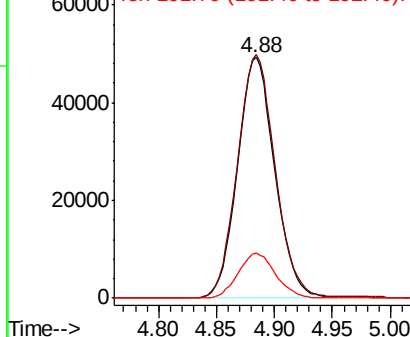
Lab File: VU028084.D

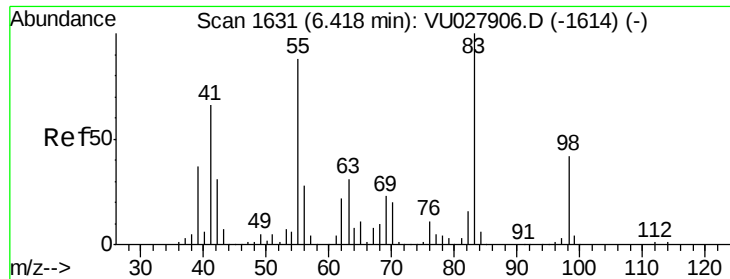
Acq: 13 Nov 2018 12:04

Tgt Ion:	113	Resp:	110175
Ion Ratio	Lower	Upper	
113	100		
111	102.6	83.0	124.6
192	18.8	15.6	23.4



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





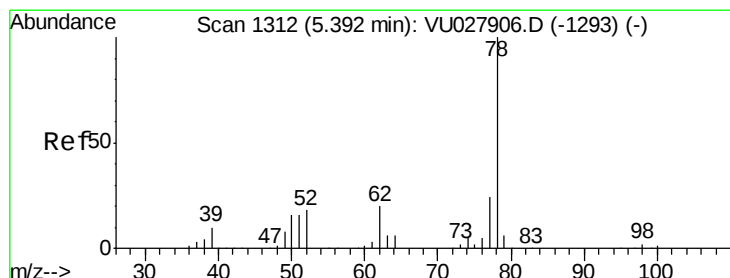
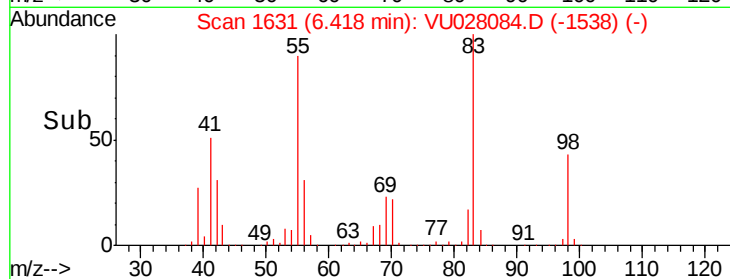
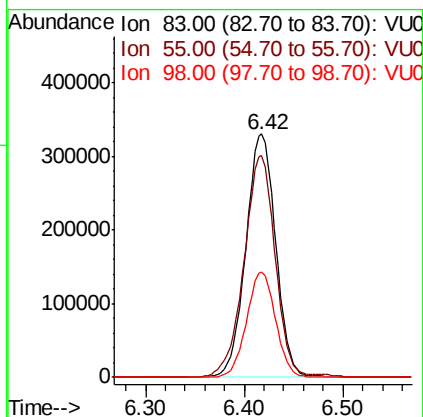
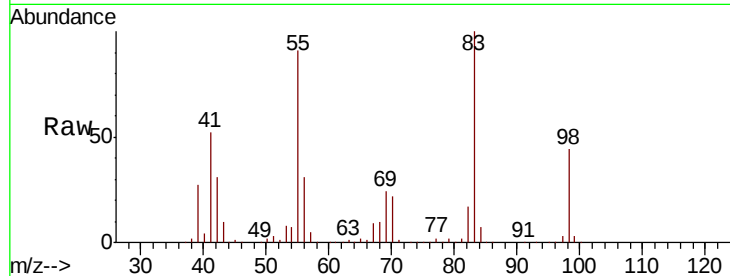
#39
Methvlcvclohexane
Concen: 163.737 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.8	70.3	105.5
98	43.5	34.0	51.0

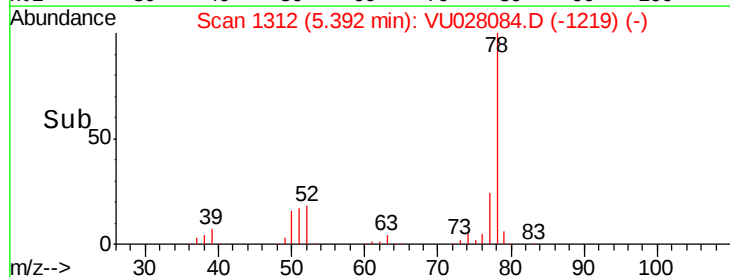
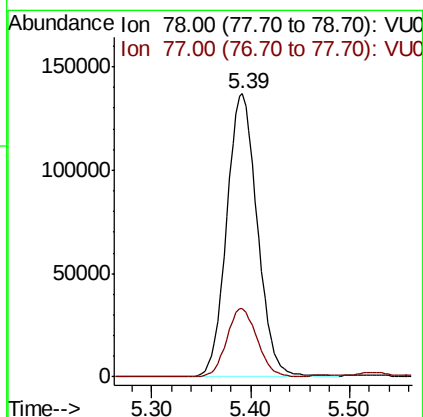
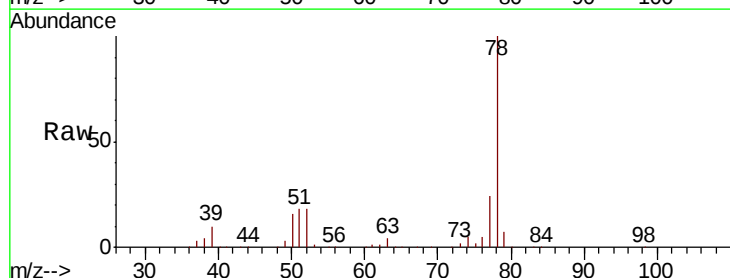
Manual Integrations
APPROVED

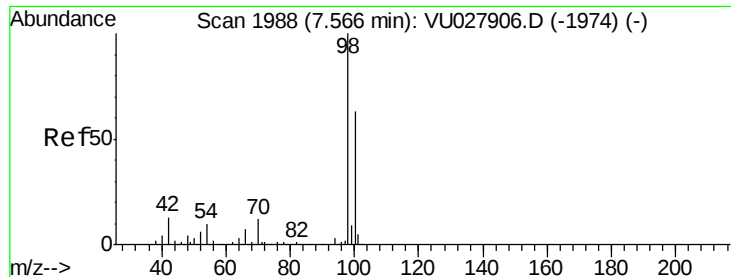
MMDadoda
11/14/2018 9:34:29 AM



#40
Benzene
Concen: 27.788 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9





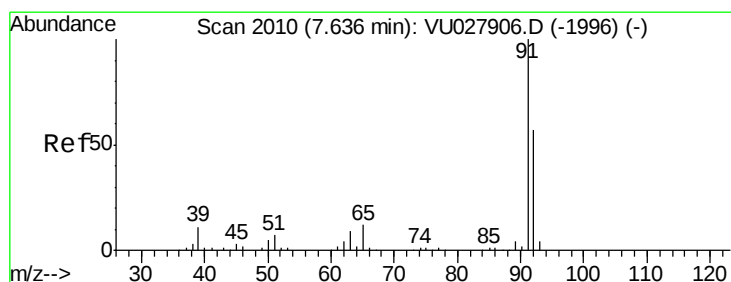
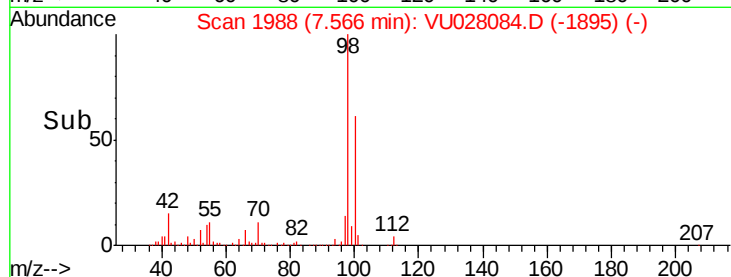
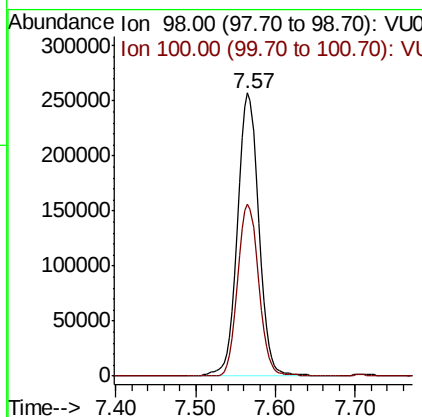
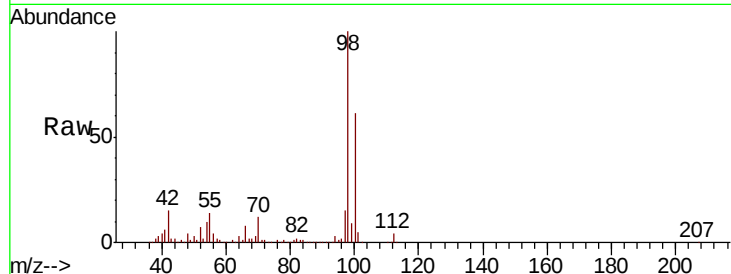
#50
Toluene-d8
Concen: 56.694 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion: 98 Resp: 459864
Ion Ratio Lower Upper
98 100
100 60.0 50.1 75.1

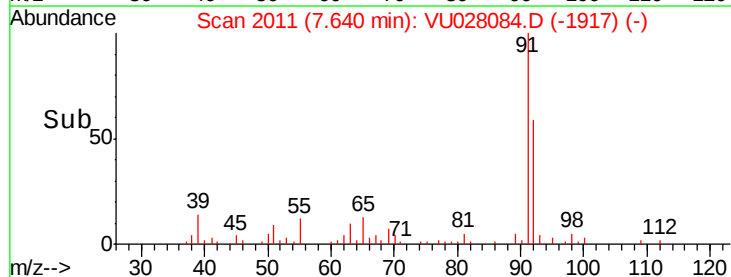
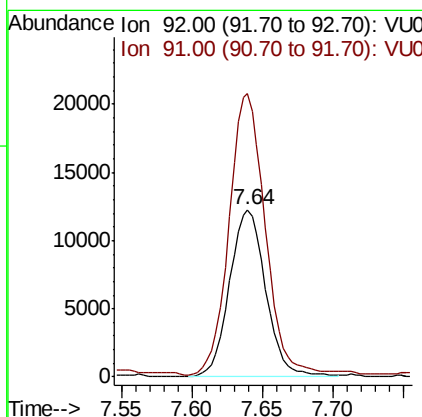
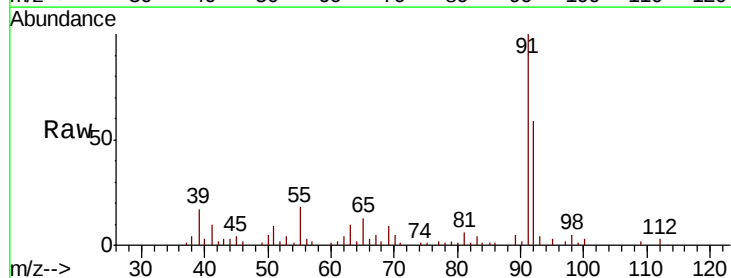
Manual Integrations
APPROVED

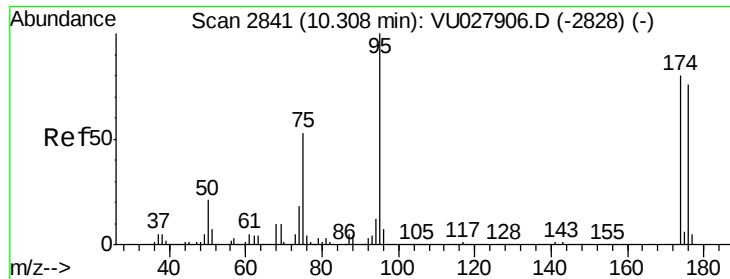
MMDadoda
11/14/2018 9:34:29 AM



#52
Toluene
Concen: 3.519 ug/l
RT: 7.64 min Scan# 2011
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion: 92 Resp: 22062
Ion Ratio Lower Upper
92 100
91 166.5 141.2 211.8





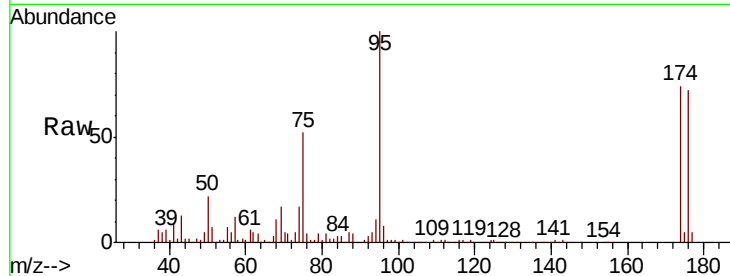
#62
4-Bromofluorobenzene
Concen: 52.535 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

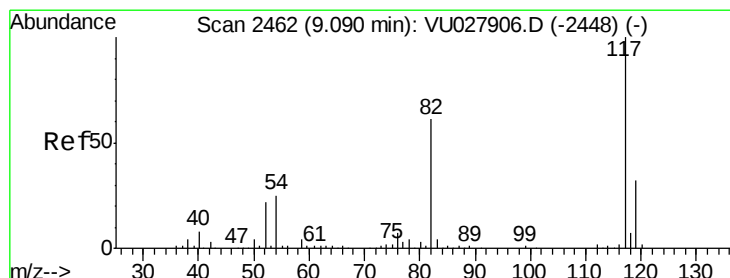
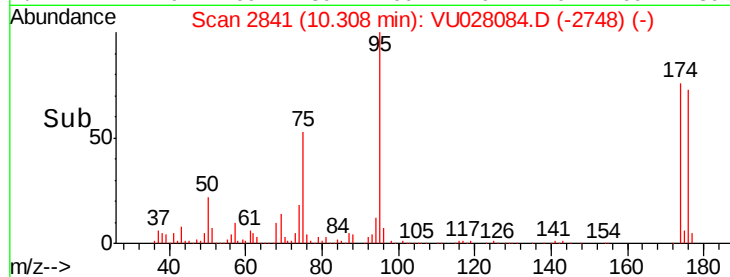
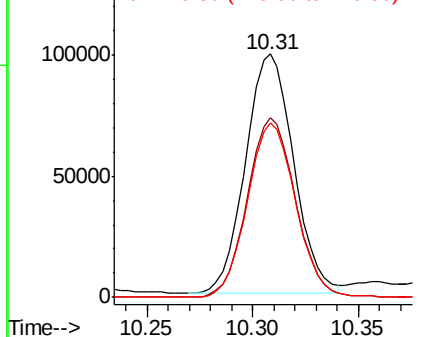
Tot Ion	Ratio	Resp	Lower	Upper
95	100	157176		
174	75.1	0.0	156.4	
176	72.8	0.0	150.8	

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:29 AM

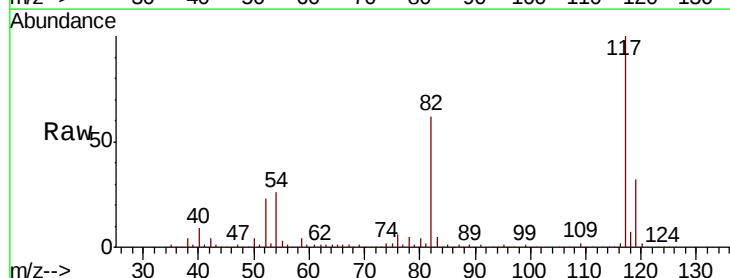


Abundance Ion 94.90 (94.60 to 95.60): VU027906.D (-2828) (-)
Ion 173.80 (173.50 to 174.50): VU027906.D (-2828) (-)
Ion 175.80 (175.50 to 176.50): VU027906.D (-2828) (-)

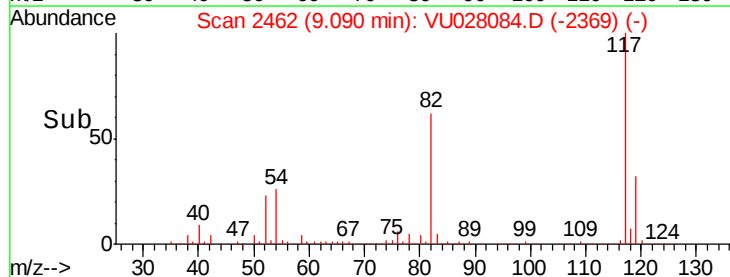
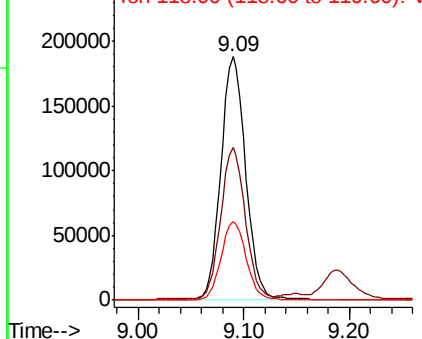


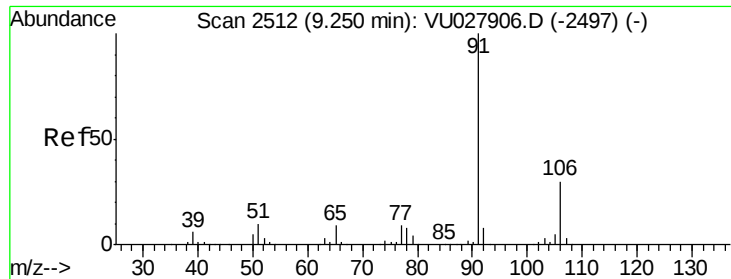
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	306941		
82	61.9	48.6	73.0	
119	32.4	25.8	38.8	



Abundance Ion 116.90 (116.60 to 117.60): VU027906.D (-2448) (-)
Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): VU027906.D (-2448) (-)





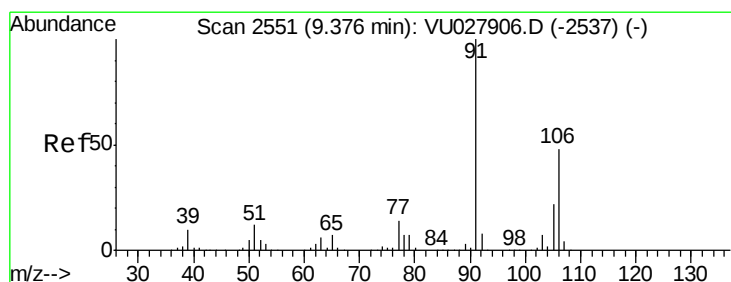
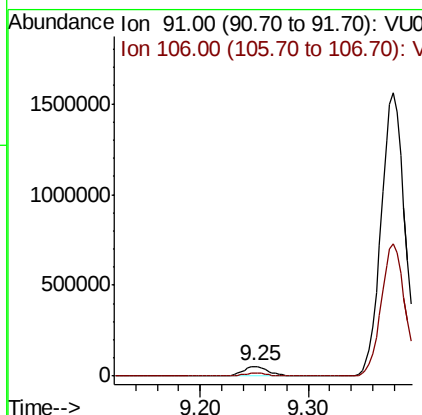
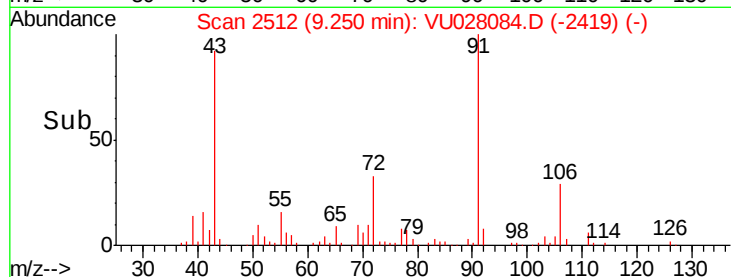
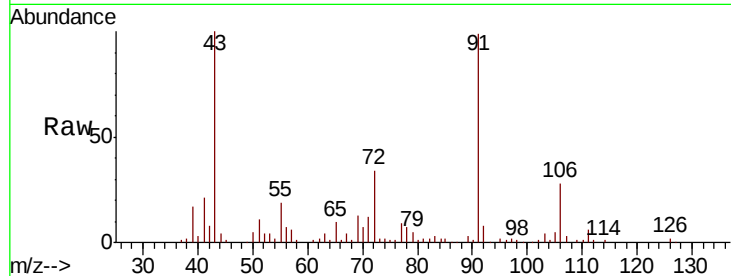
#67
Ethyl Benzene
Concen: 7.679 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion: 91 Resp: 91665
Ion Ratio Lower Upper
91 100
106 28.7 23.6 35.4

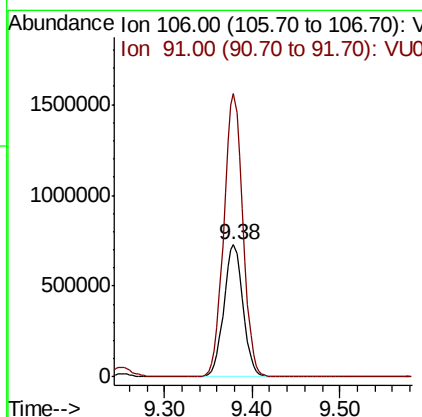
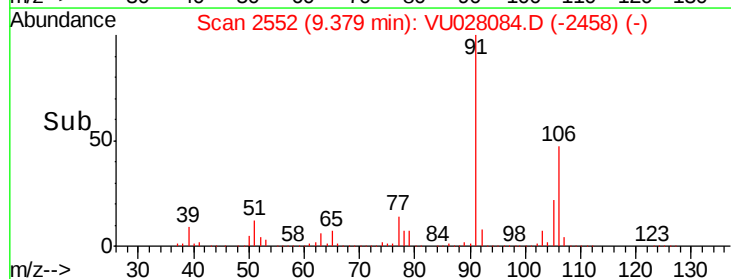
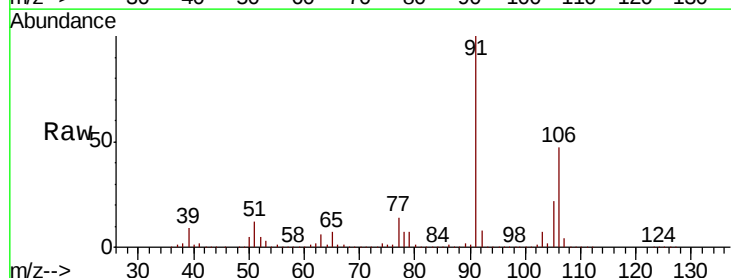
Manual Integrations
APPROVED

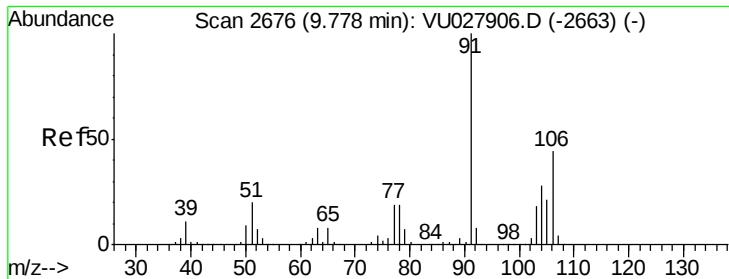
MMDadoda
11/14/2018 9:34:29 AM



#68
m/p-Xylenes
Concen: 255.970 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion: 106 Resp: 1108617
Ion Ratio Lower Upper
106 100
91 212.5 168.2 252.4





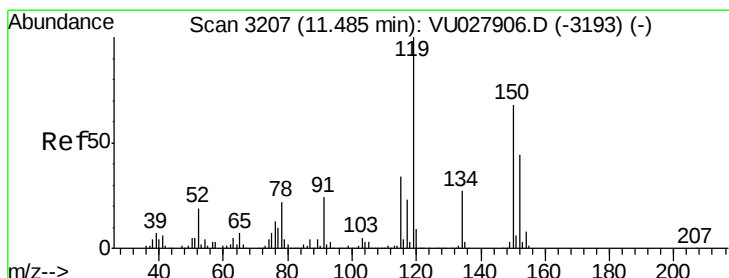
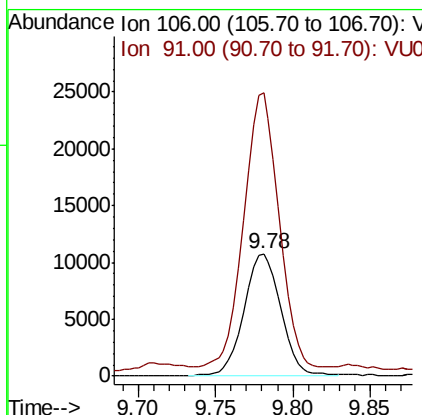
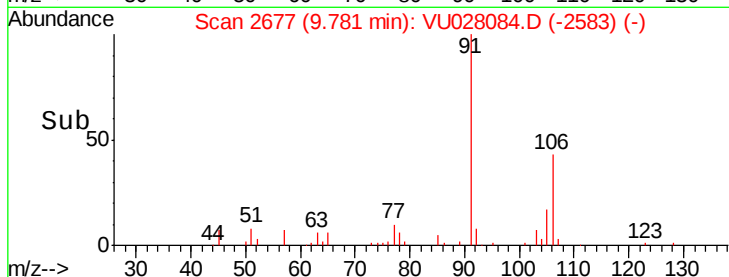
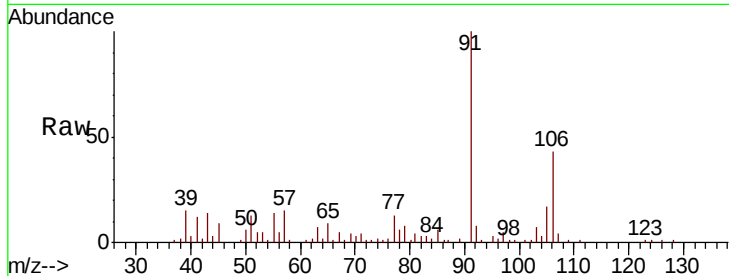
#69
o-Xylene
Concen: 4.092 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion:106 Resp: 17898
Ion Ratio Lower Upper
106 100
91 215.9 111.1 333.4

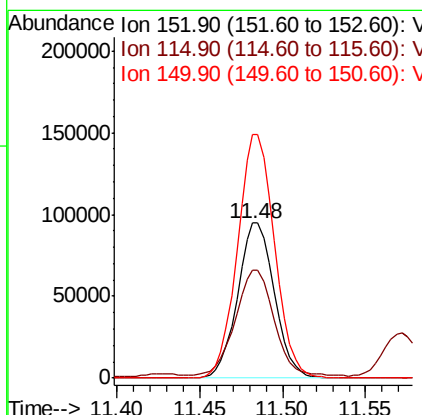
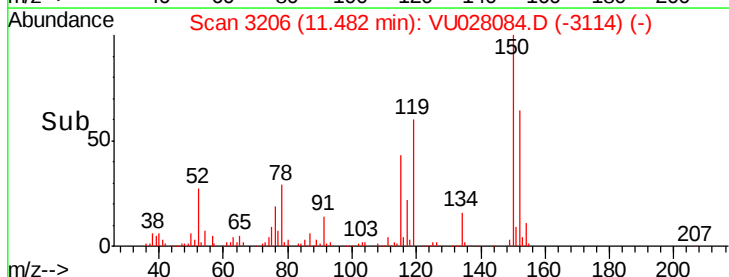
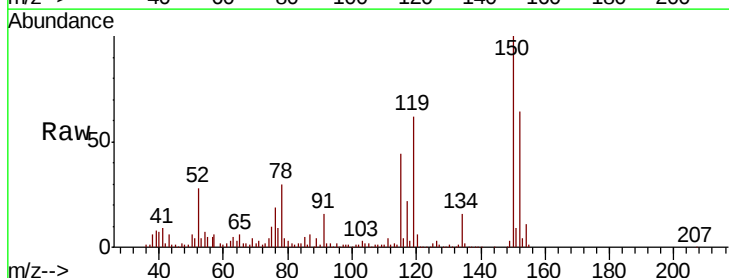
Manual Integrations
APPROVED

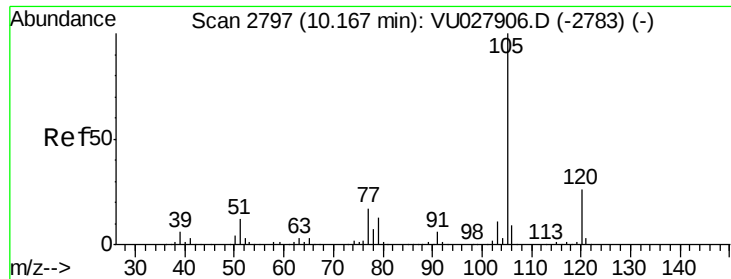
MMDadoda
11/14/2018 9:34:29 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion:152 Resp: 145300
Ion Ratio Lower Upper
152 100
115 72.3 43.0 129.0
150 158.7 0.0 349.4





#73

Isopropylbenzene

Concen: 5.184 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

Instrument :

MSVOA_U

ClientSampleId :

SP-UST-MIDDLE

Tot Ion:105 Resp: 58357

Ion Ratio Lower Upper

105 100

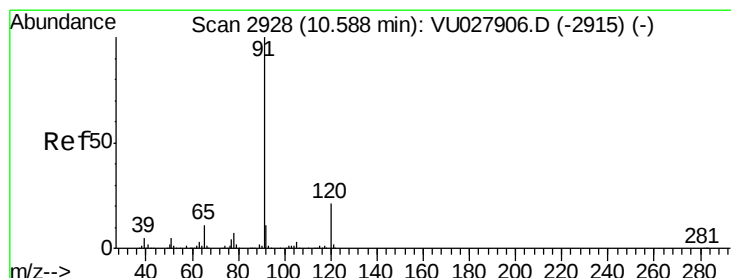
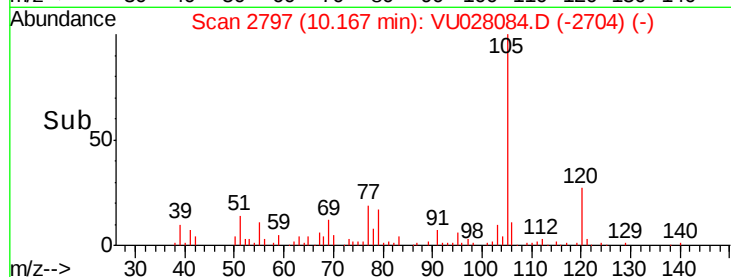
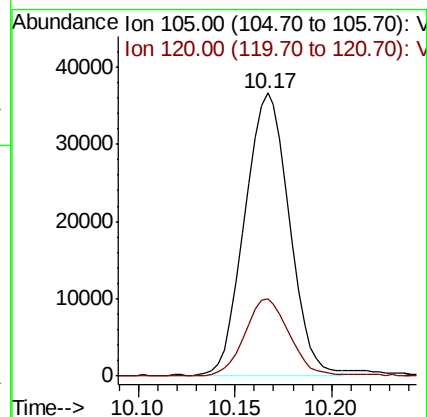
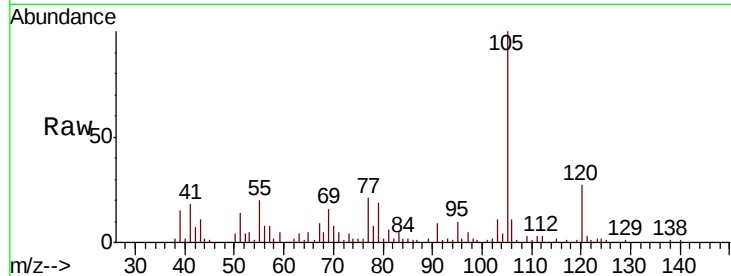
120 27.5 12.7 38.0

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:29 AM



#78

n-propylbenzene

Concen: 1.994 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU028084.D

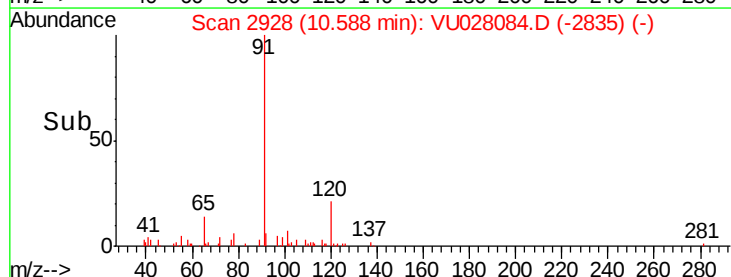
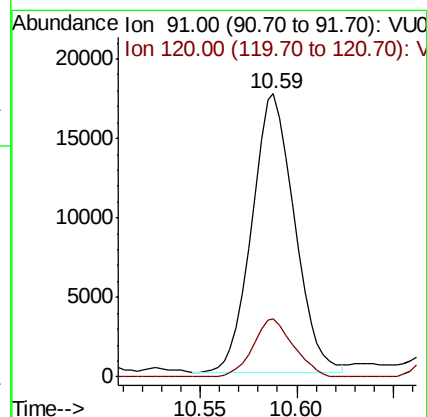
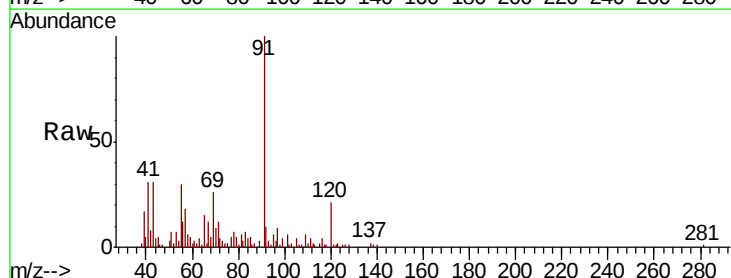
Acq: 13 Nov 2018 12:04

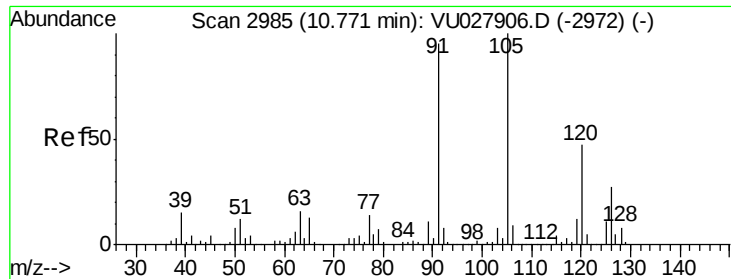
Tgt Ion: 91 Resp: 26872

Ion Ratio Lower Upper

91 100

120 0.0 10.6 31.8#





#80

1,3,5-Trimethylbenzene

Concen: 6.425 ug/l m

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

Instrument :

MSVOA_U

ClientSampleId :

SP-UST-MIDDLE

Tot Ion:105 Resp: 59914

Ion Ratio Lower Upper

105 100

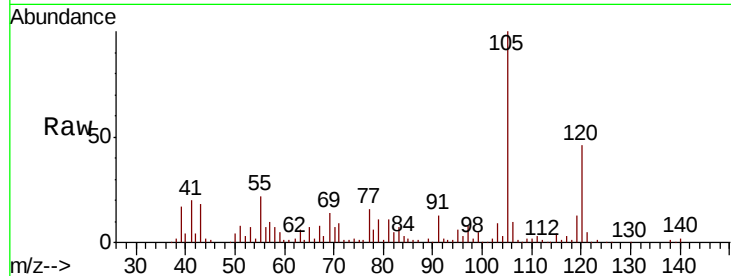
120 1065.5 23.3 69.9

Manual Integrations

APPROVED

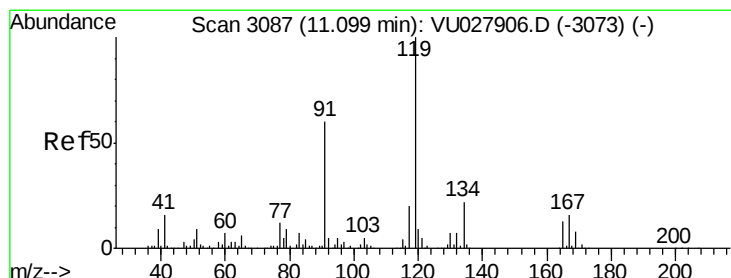
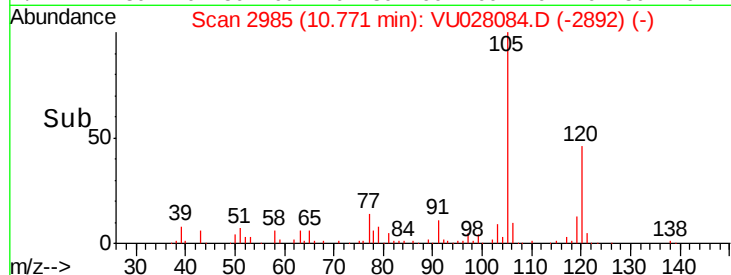
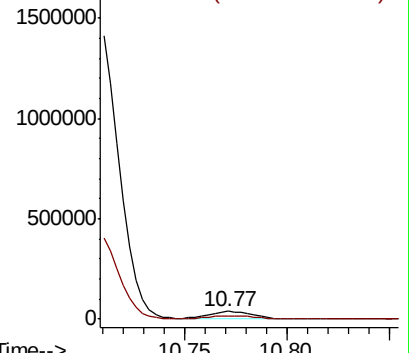
MMDadoda

11/14/2018 9:34:29 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#83

tert-Butylbenzene

Concen: 2.443 ug/l m

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU028084.D

Acq: 13 Nov 2018 12:04

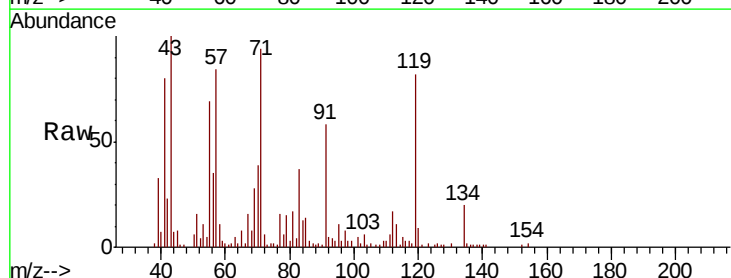
Tgt Ion:119 Resp: 22770

Ion Ratio Lower Upper

119 100

91 5009.0 29.8 89.3#

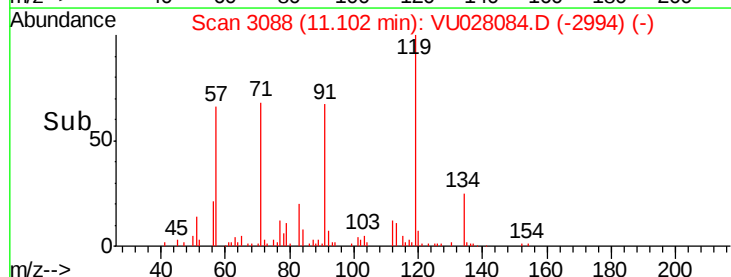
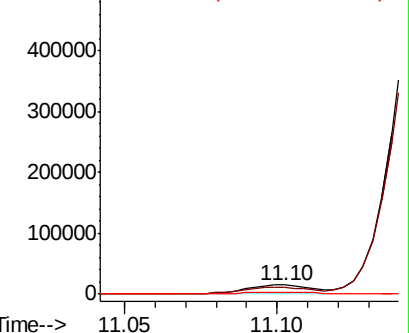
134 0.0 11.1 33.1#

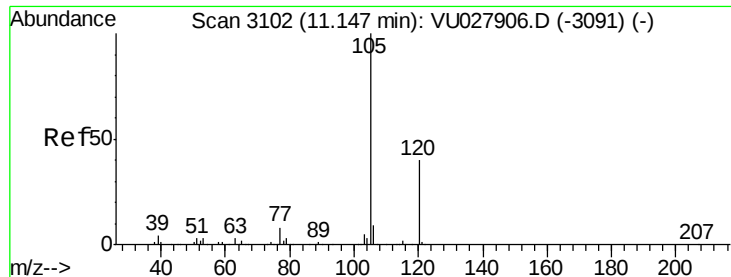


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V





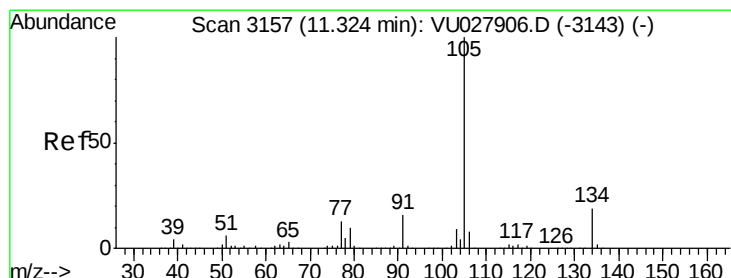
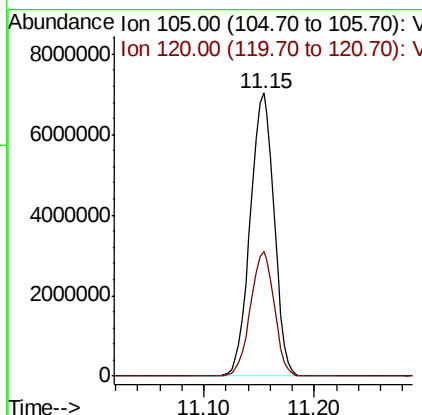
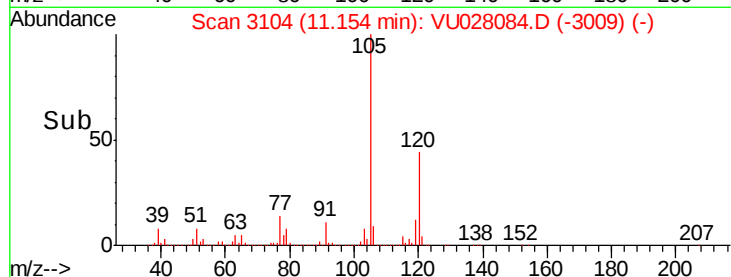
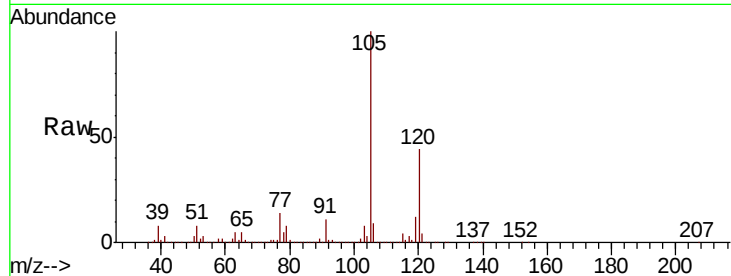
#84
1,2,4-Trimethylbenzene
Concen: 1122.274 ug/l
RT: 11.15 min Scan# 3104
Delta R.T. 0.01 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion:105 Resp:10537549
Ion Ratio Lower Upper
105 100
120 43.8 22.1 66.1

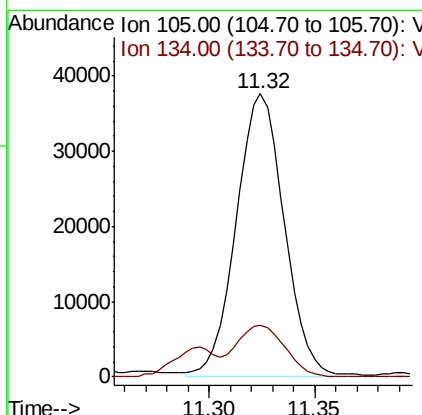
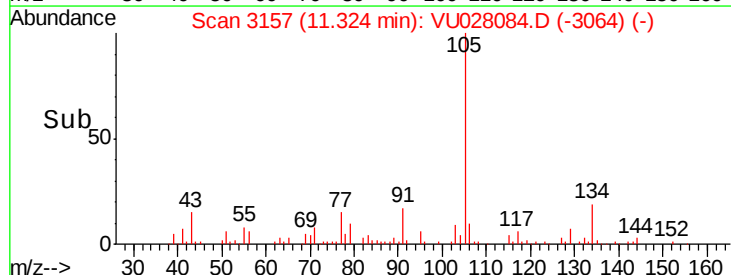
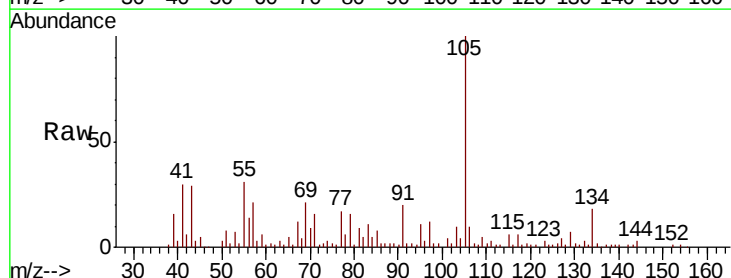
Manual Integrations
APPROVED

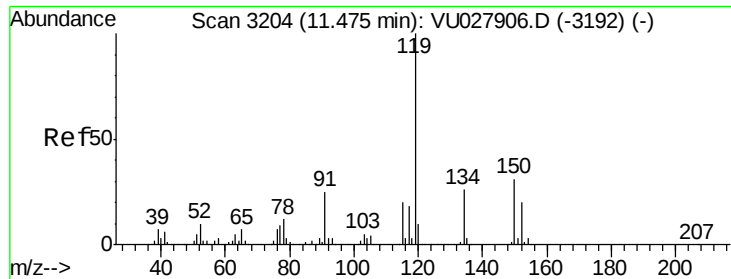
MMDadoda
11/14/2018 9:34:29 AM



#85
sec-Butylbenzene
Concen: 5.247 ug/l m
RT: 11.32 min Scan# 3157
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion:105 Resp: 59480
Ion Ratio Lower Upper
105 100
134 0.0 9.2 27.6#





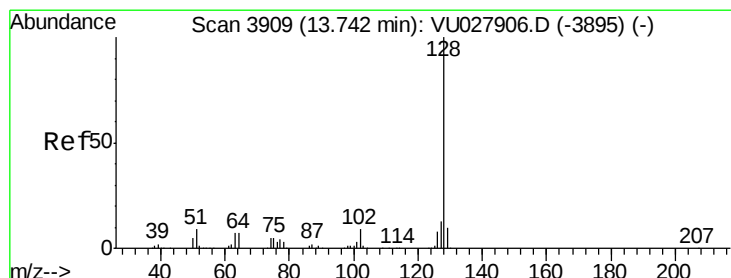
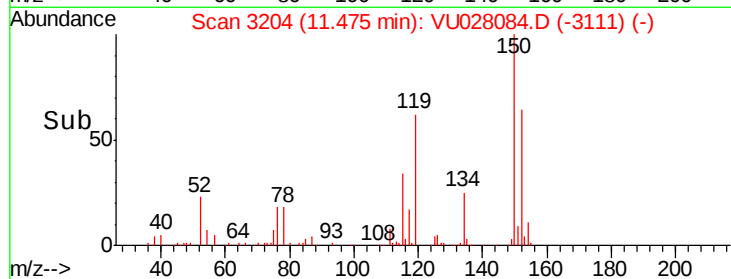
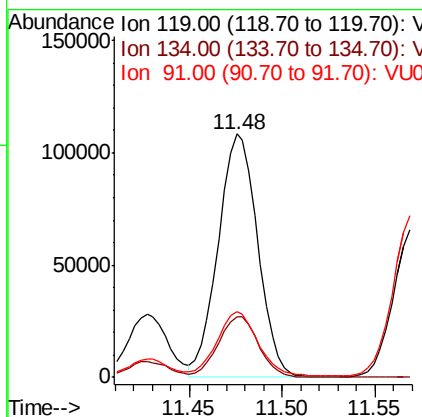
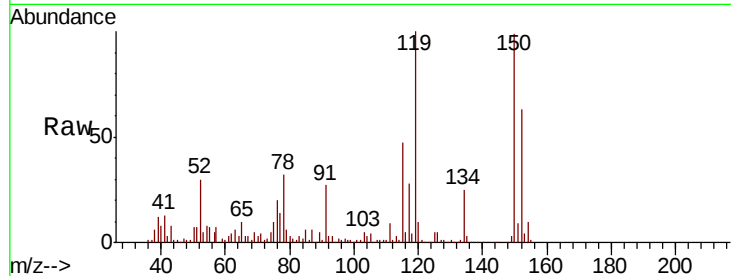
#86
p-Isopropyltoluene
Concen: 16.866 ug/l
RT: 11.48 min Scan# 3204
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Instrument :
MSVOA_U
ClientSampleId :
SP-UST-MIDDLE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	159849		
134	25.4	12.9	38.7	
91	27.0	12.4	37.2	

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:29 AM



#95
Naphthalene
Concen: 307.160 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028084.D
Acq: 13 Nov 2018 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	3649786		
127	13.3	10.4	15.6	
129	11.3	8.3	12.5	

