

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033754.D
 Acq On : 22 May 2019 21:26
 Operator : SY/AP
 Sample : K2929-09DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3001-55DL

Manual Integrations
 APPROVED

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 5/28/2019 2:51:08 AM

Quant Time: May 23 05:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1044703	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2664588	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2642770	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	2081280	9.71	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	1484722	29.170	ppbv	94
10) Heptane	8.24	43	119751	0.831	ppbv	98
13) Ethanol	3.65	45	55990m	3.403	ppbv	
15) Acetone	3.89	43	1267060	8.742	ppbv	95
19) Isopropyl Alcohol	4.04	45	34932m	0.374	ppbv	
20) Methylene Chloride	4.40	84	9785m	0.175	ppbv	
26) Hexane	5.77	57	130116	1.189	ppbv	86
27) Carbon Disulfide	4.62	76	52414	0.349	ppbv #	85
29) Chloroform	5.84	83	84677	0.420	ppbv	87
30) Cyclohexane	7.24	84	13106m	0.142	ppbv	
34) 2-Butanone	5.33	43	112766	0.683	ppbv	99
35) Carbon Tetrachloride	7.13	117	32027	0.150	ppbv	85
36) Benzene	7.00	78	151786	0.626	ppbv #	94
44) 2,2,4-Trimethylpentane	7.98	57	45818m	0.112	ppbv	
53) Toluene	9.94	91	1308619	5.006	ppbv	99
58) Ethyl Benzene	12.85	91	164861	0.471	ppbv	93
59) m/p-Xylene	13.11	91	529751	1.732	ppbv	98
60) o-Xylene	13.84	91	168313	0.546	ppbv	97
72) 4-Ethyltoluene	15.99	105	35799m	0.102	ppbv	
74) 1,2,4-Trimethylbenzene	16.91	105	95741	0.256	ppbv #	66

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

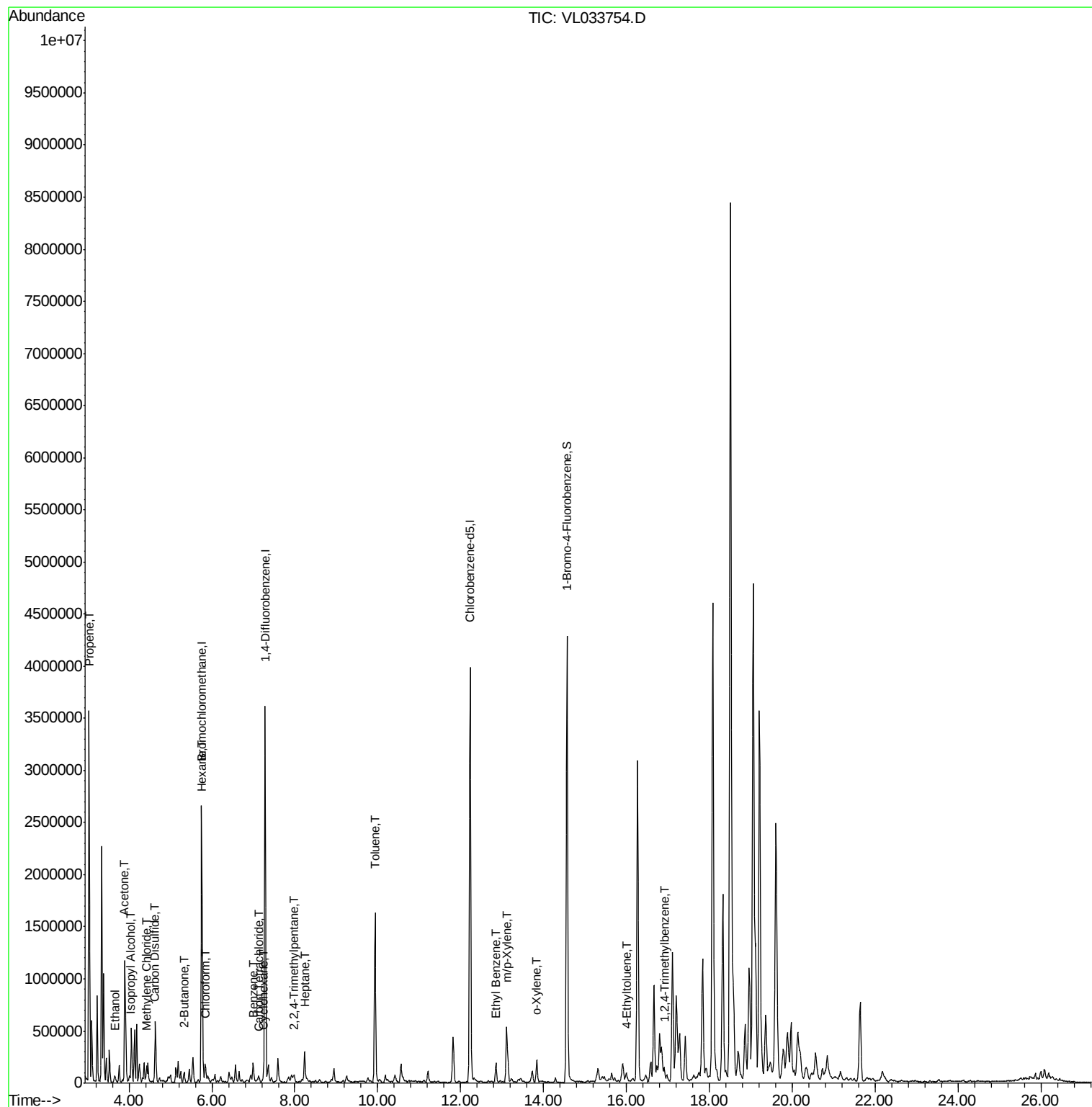
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052219\
Data File : VL033754.D
Acq On : 22 May 2019 21:26
Operator : SY/AP
Sample : K2929-09DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

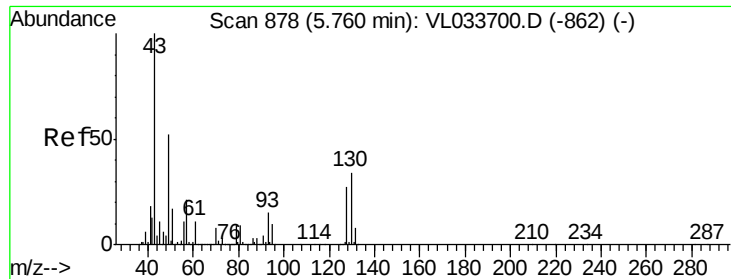
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

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Quant Time: May 23 05:44:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion: 49 Resp: 1044703

Ion Ratio Lower Upper

49 100

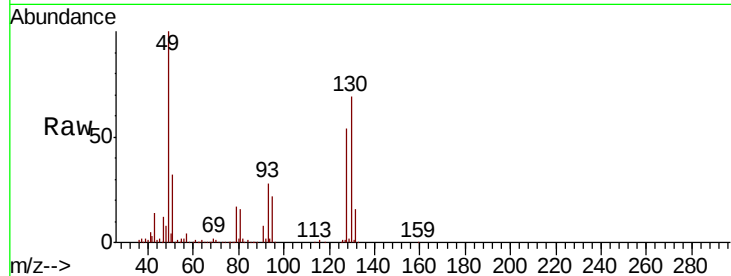
128 52.7 25.2 75.6

130 67.2 32.5 97.5

Manual Integrations
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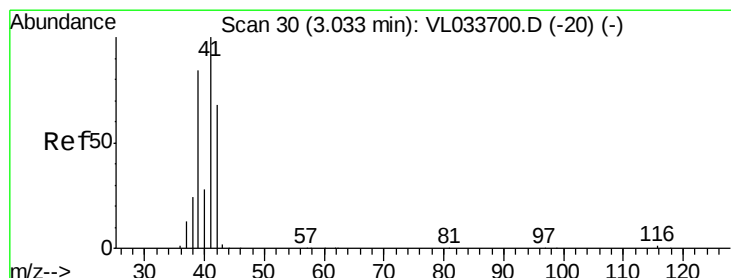
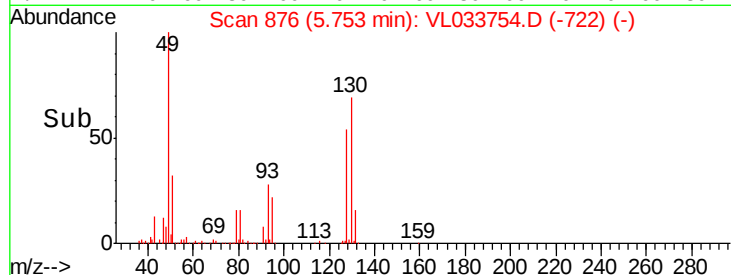
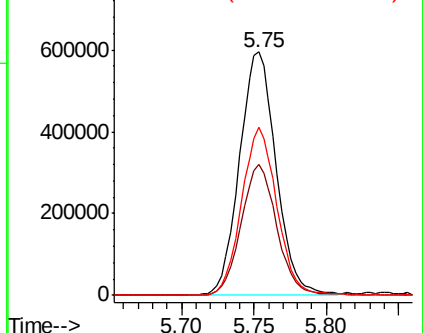
5/28/2019 2:51:08 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 29.170 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033754.D

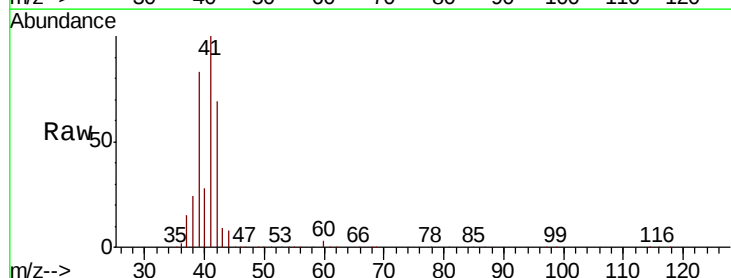
Acq: 22 May 2019 21:26

Tgt Ion: 41 Resp: 1484722

Ion Ratio Lower Upper

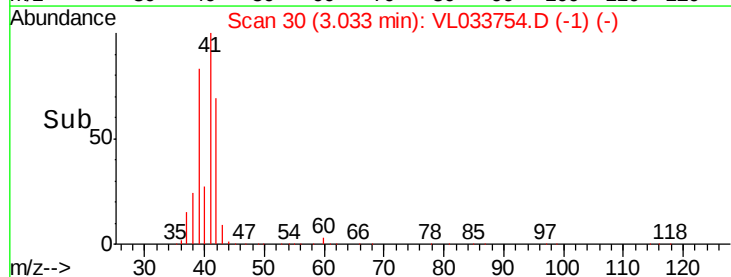
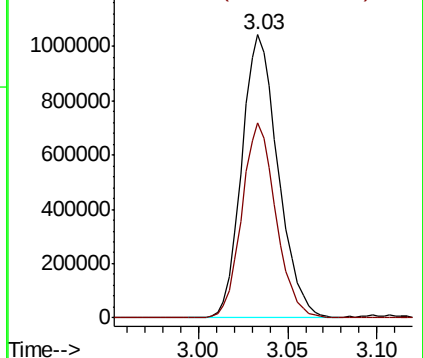
41 100

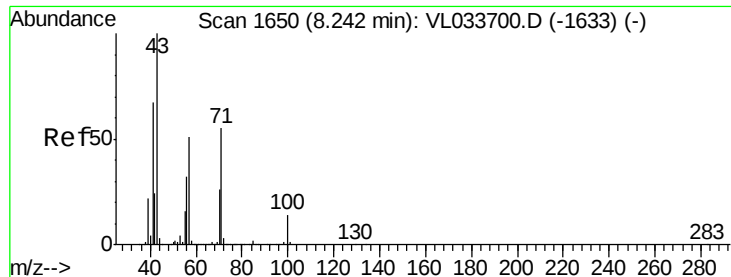
42 64.8 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





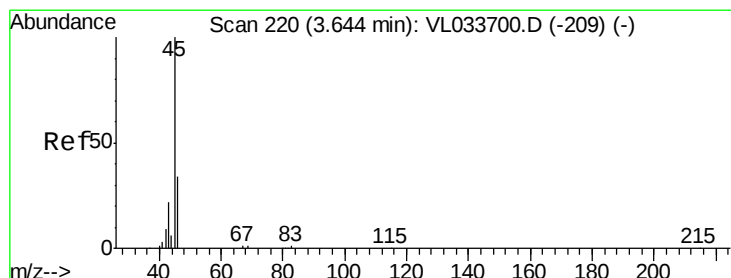
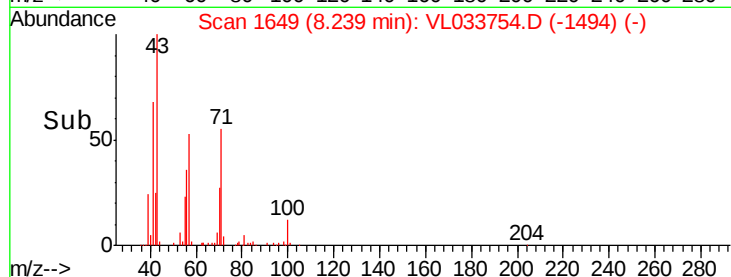
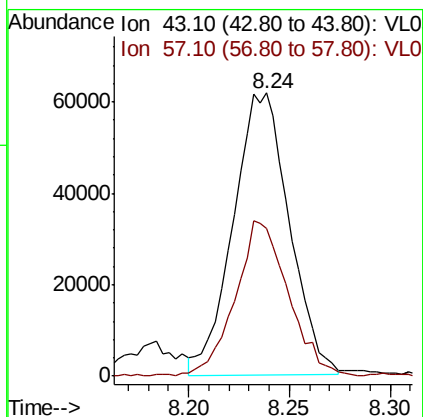
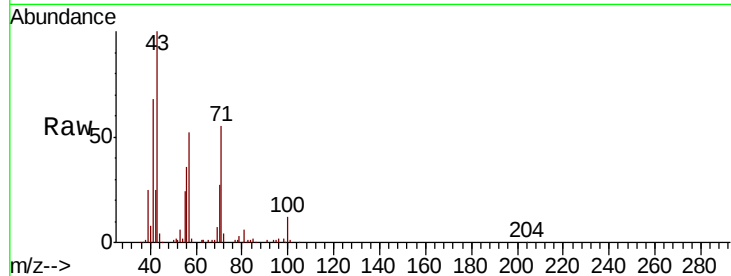
#10
Heptane
Concen: 0.831 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion: 43 Resp: 119751
Ion Ratio Lower Upper
43 100
57 53.4 41.4 62.0

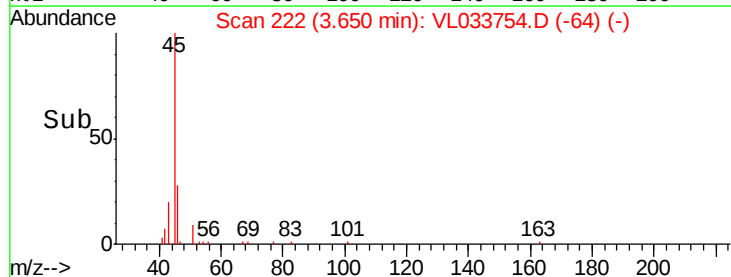
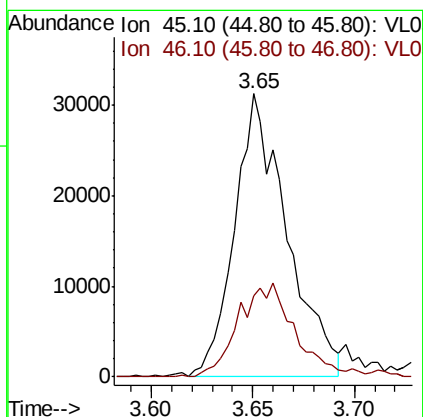
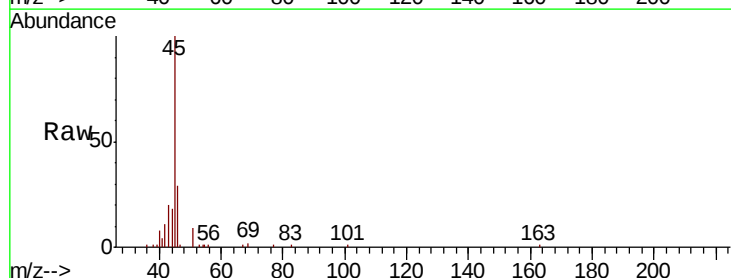
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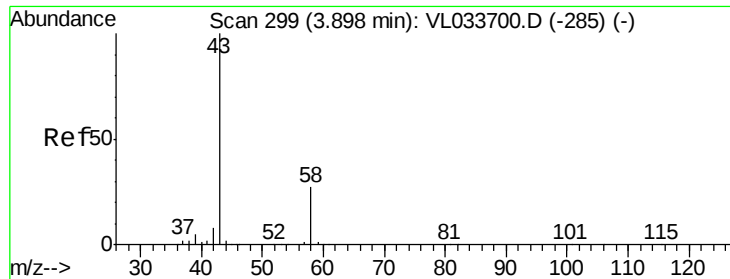
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#13
Ethanol
Concen: 3.403 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion: 45 Resp: 55990
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#





#15

Acetone

Concen: 8.742 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion: 43 Resp: 1267060

Ion Ratio Lower Upper

43 100

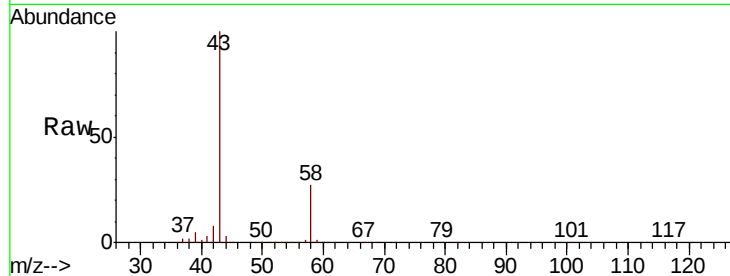
58 29.1 21.3 31.9

Manual Integrations

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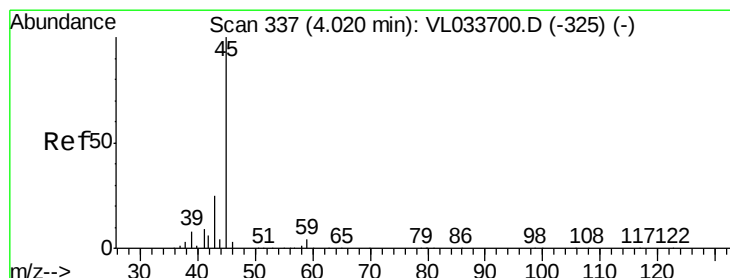
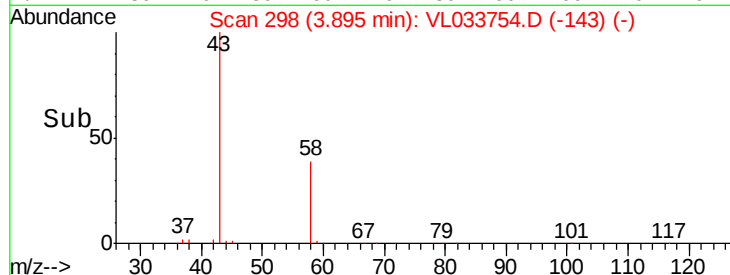
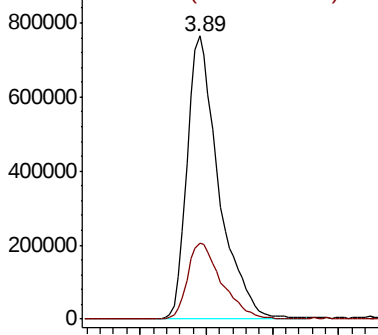
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.374 ppbv m

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033754.D

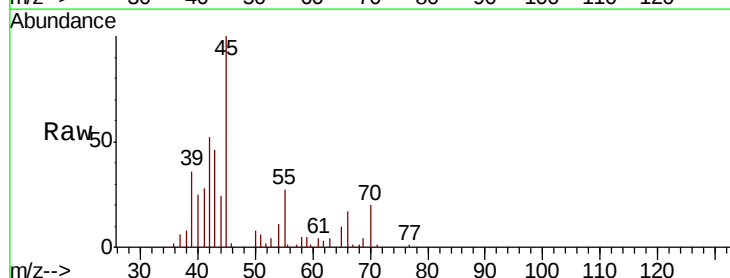
Acq: 22 May 2019 21:26

Tgt Ion: 45 Resp: 34932

Ion Ratio Lower Upper

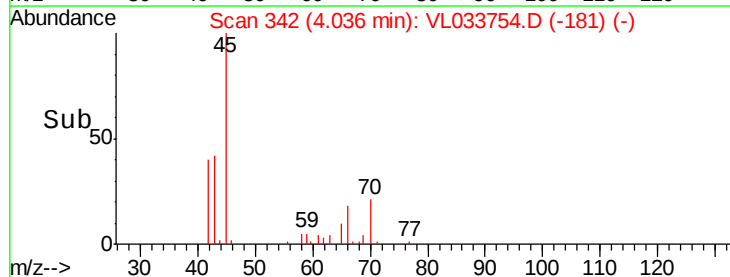
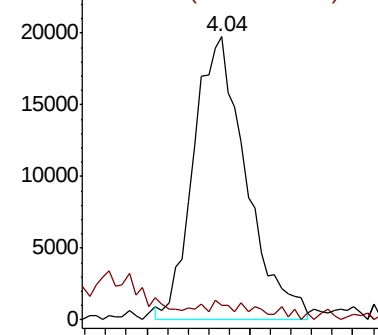
45 100

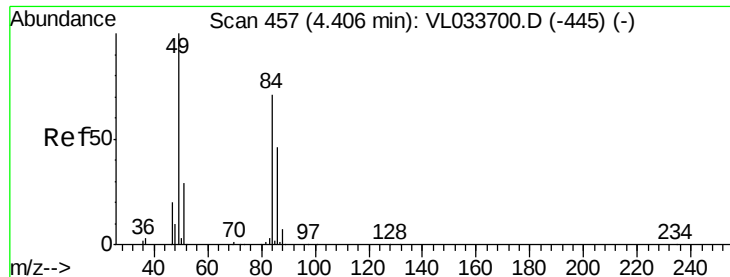
58 0.0 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methvlene Chloride

Concen: 0.175 ppbv m

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion: 84 Resp: 9785

Ion Ratio Lower Upper

84 100

49 150.0 112.8 169.2

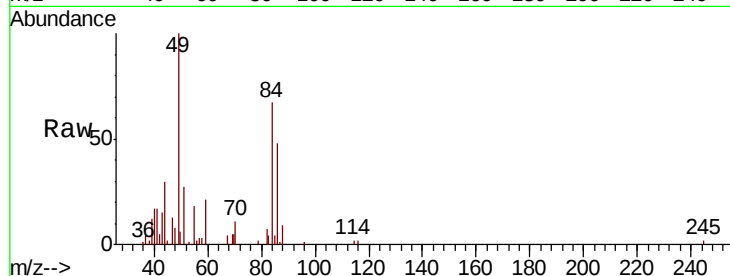
51 40.2 33.4 50.0

86 71.6 51.7 77.5

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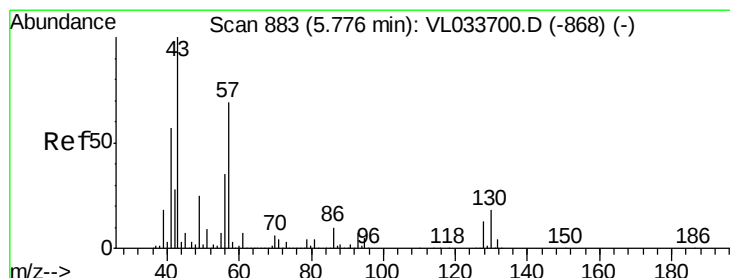
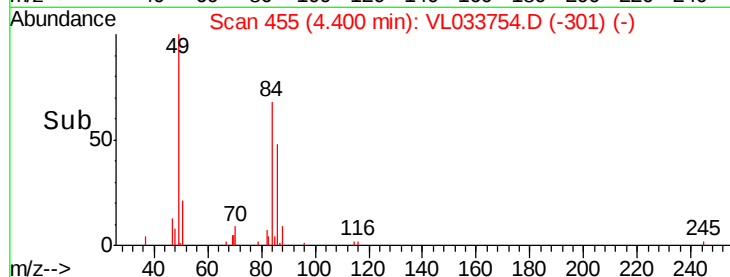
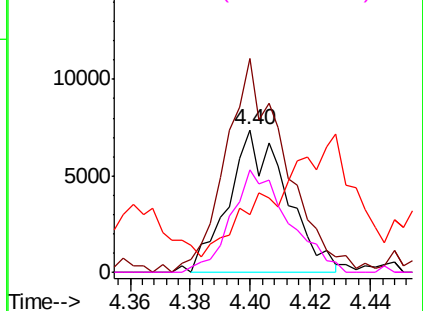


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26

Hexane

Concen: 1.189 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Tgt Ion: 57 Resp: 130116

Ion Ratio Lower Upper

57 100

41 103.3 69.8 104.6

43 203.1 181.8 272.6

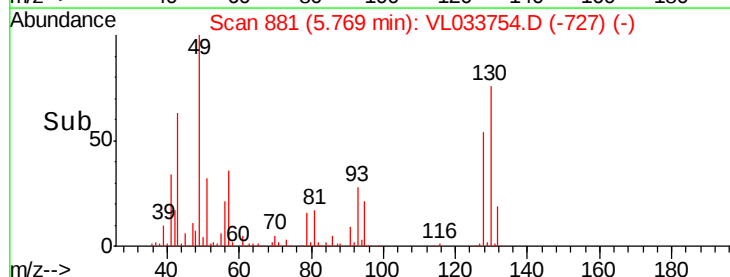
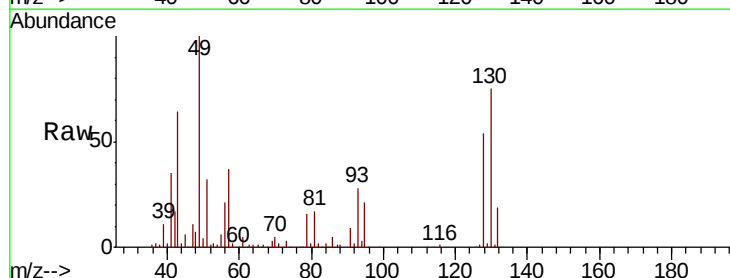
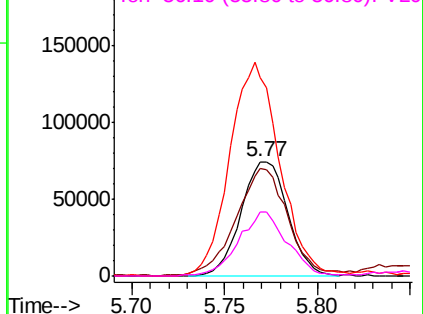
56 58.1 42.1 63.1

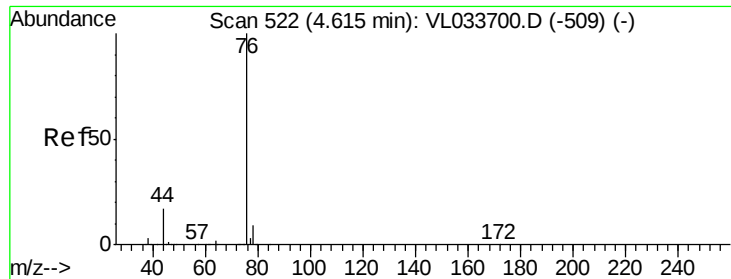
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





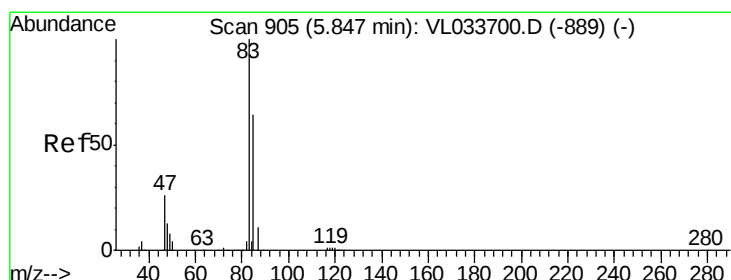
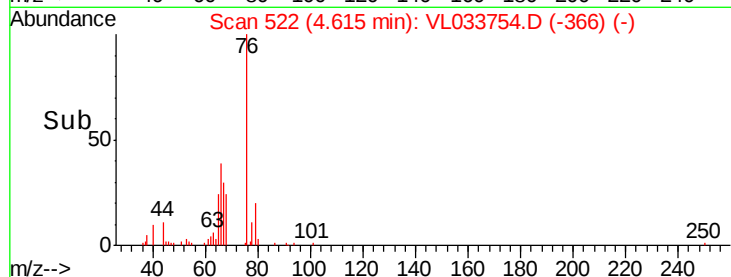
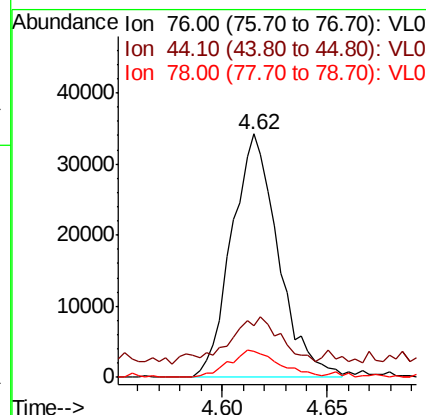
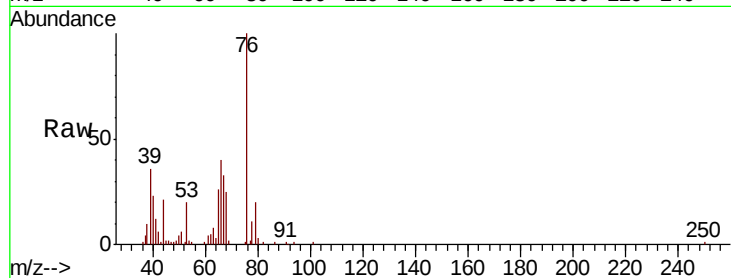
#27
Carbon Disulfide
Concen: 0.349 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	25.1	13.8	20.8#
78	13.2	7.4	11.0#

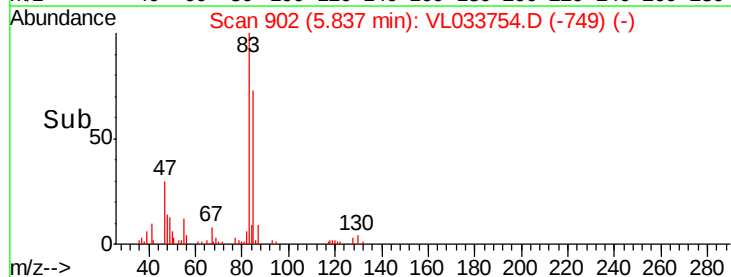
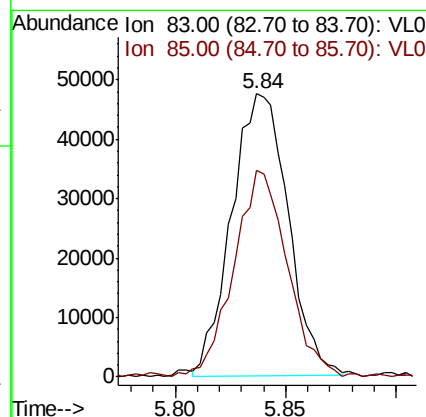
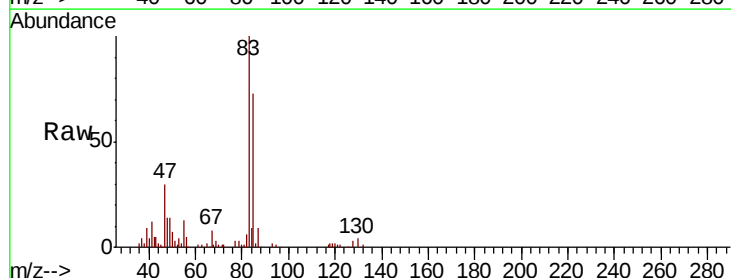
Manual Integrations
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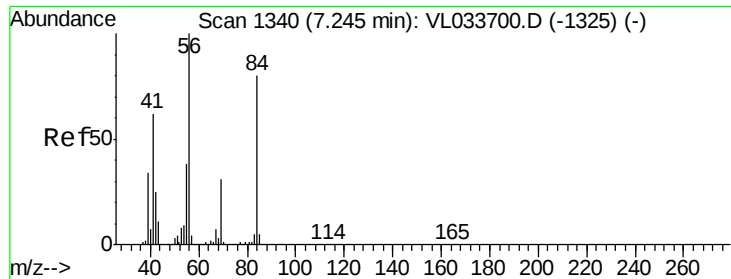
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#29
Chloroform
Concen: 0.420 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	74.3	51.5	77.3





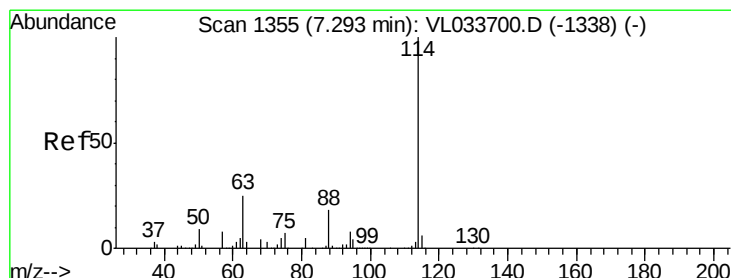
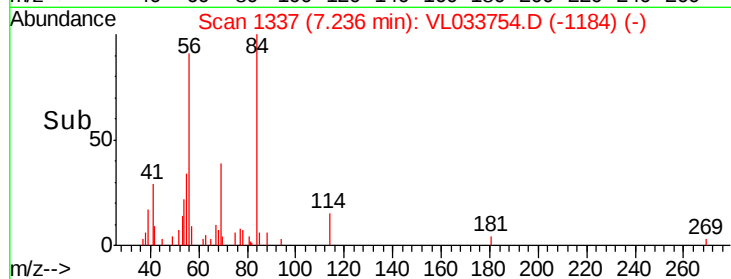
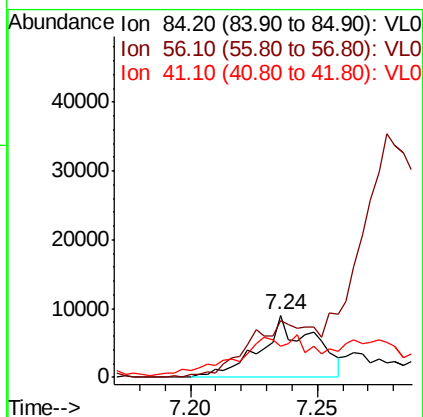
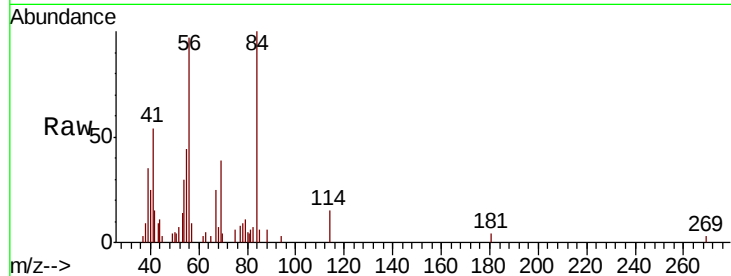
#30
Cvclohexane
Concen: 0.142 ppbv m
RT: 7.24 min Scan# 1337
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	0.0	66.0	99.0#

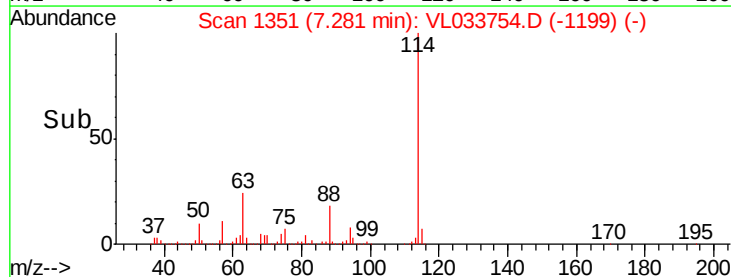
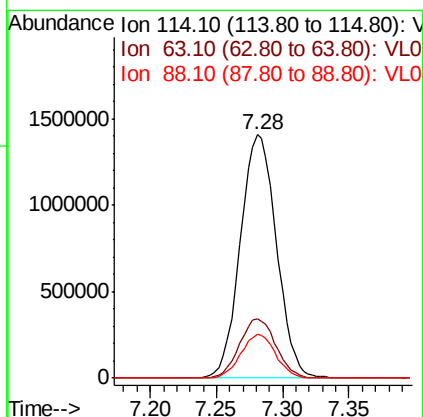
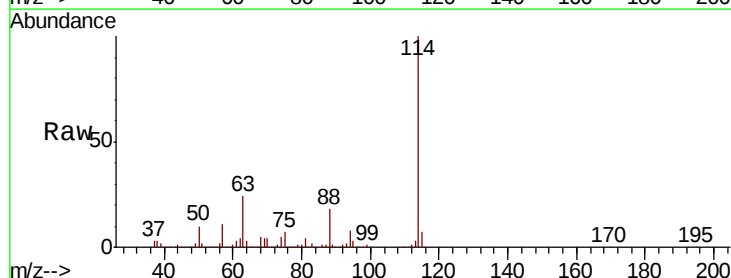
Manual Integrations
APPROVED

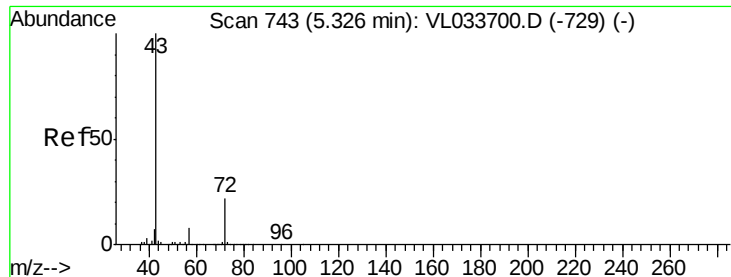
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5/28/2019 2:51:08 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.9	31.3
88	17.5	14.3	21.5





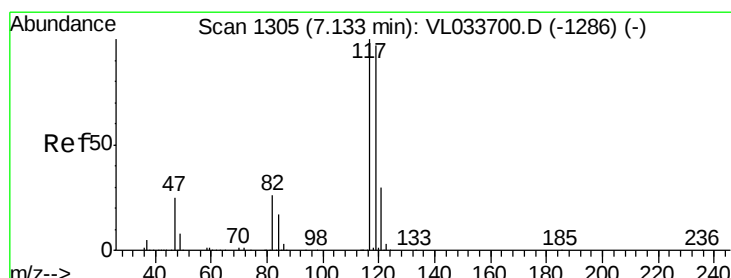
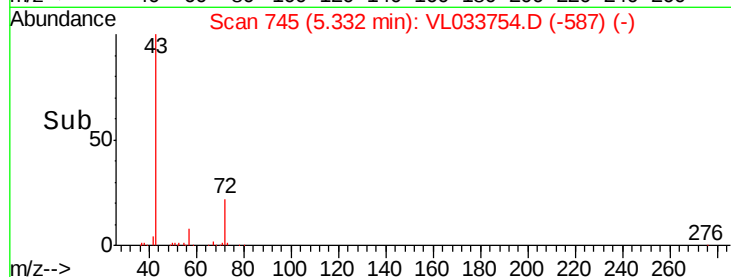
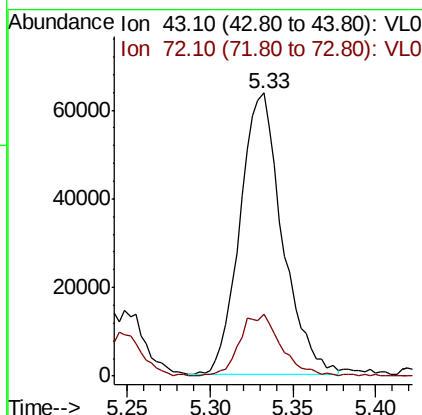
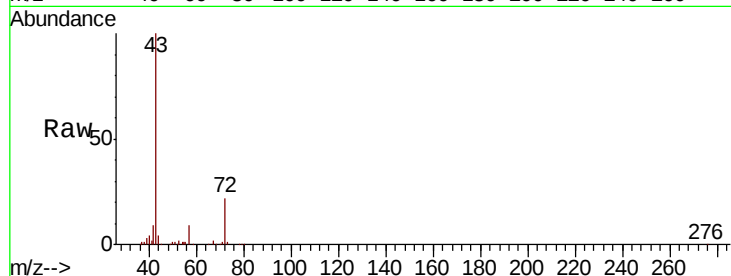
#34
2-Butanone
Concen: 0.683 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion	43	Resp	112766
Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.8	26.6

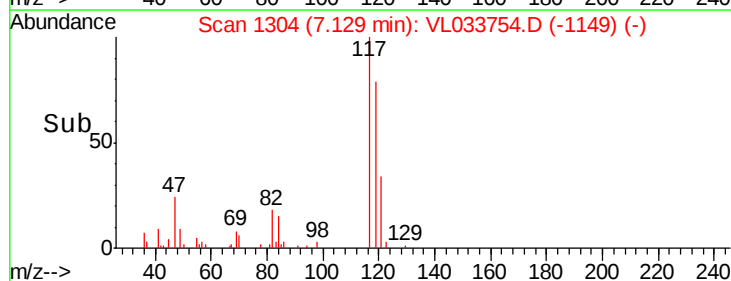
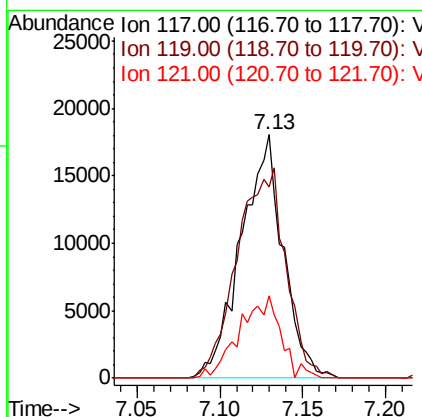
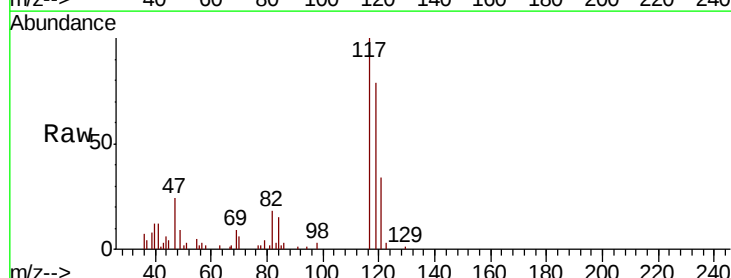
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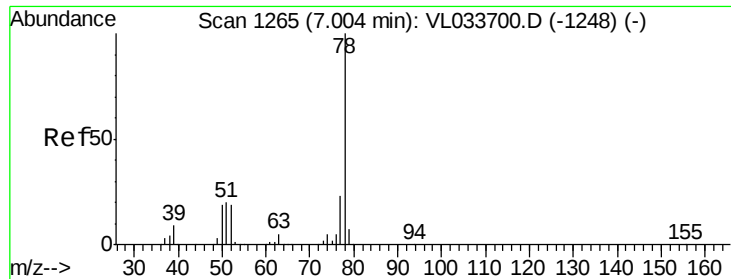
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#35
Carbon Tetrachloride
Concen: 0.150 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion	117	Resp	32027
Ion	Ratio	Lower	Upper
117	100		
119	78.7	77.2	115.8
121	33.8	24.1	36.1





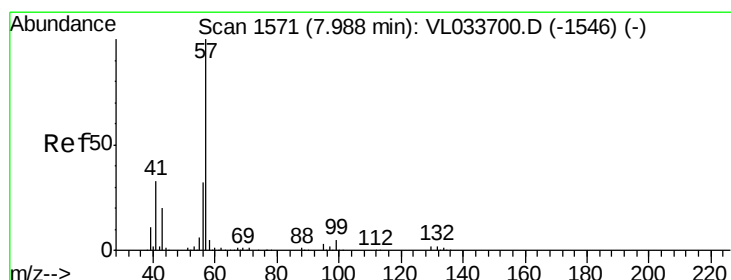
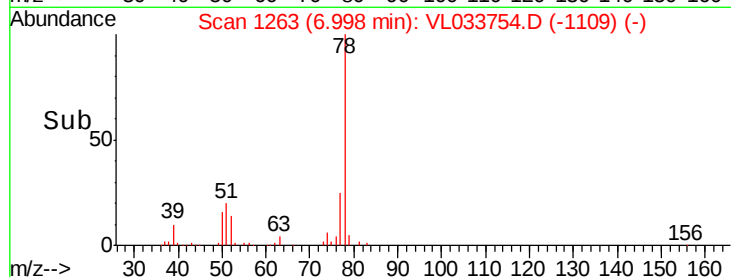
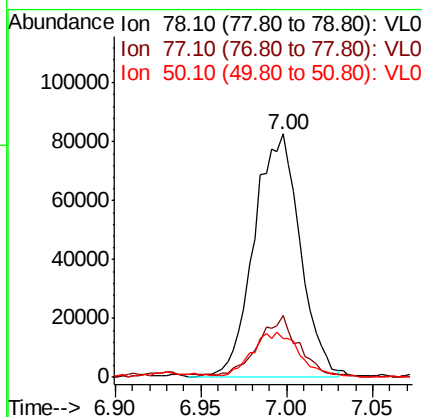
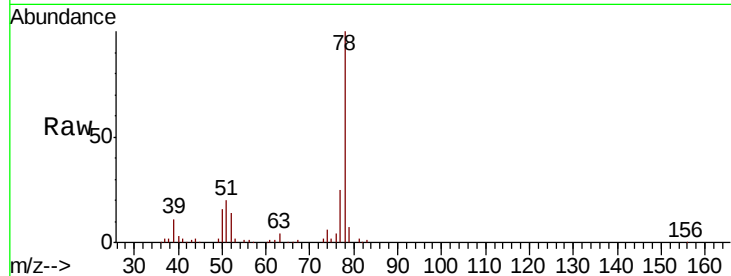
#36
Benzene
Concen: 0.626 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.4	27.6
50	15.0	15.5	23.3#

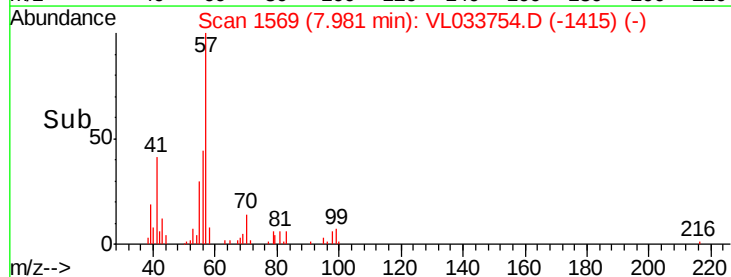
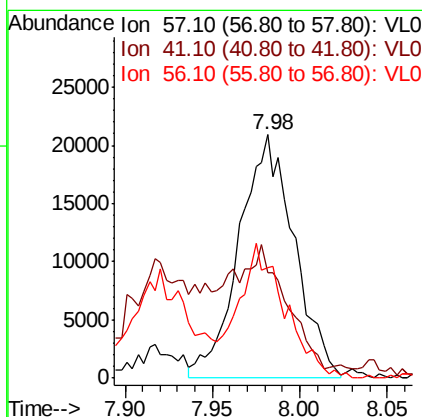
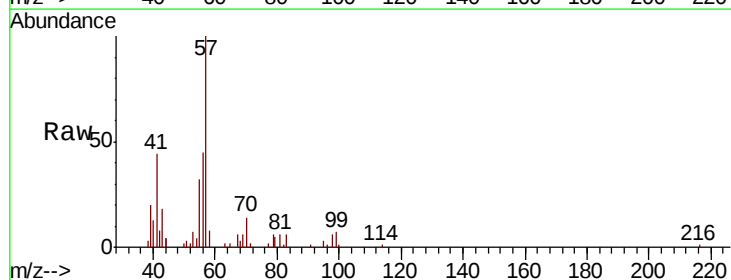
Manual Integrations
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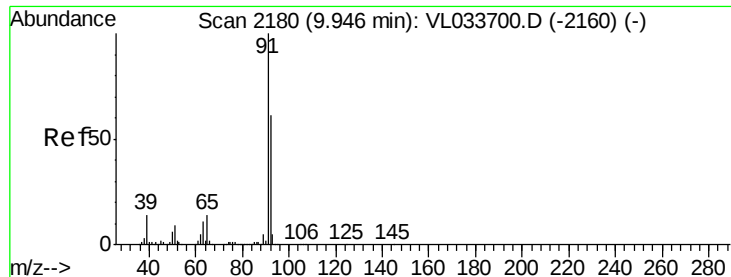
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.112 ppbv m
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	65.9	25.4	38.0#
56	45.4	24.7	37.1#





#53

Toluene

Concen: 5.006 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion: 91 Resp: 1308619

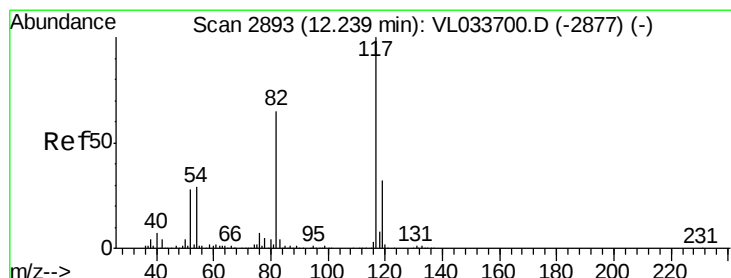
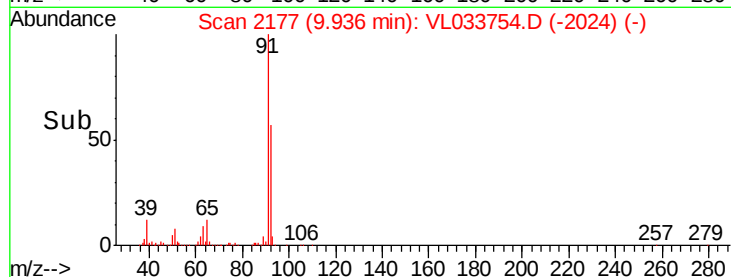
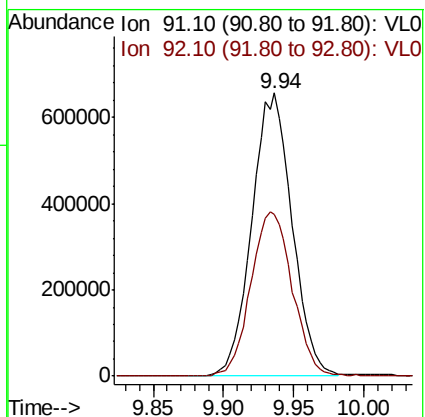
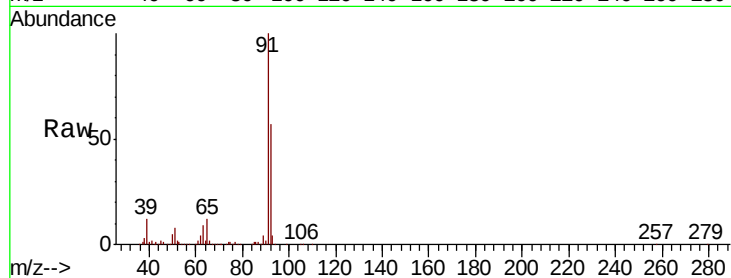
Ion Ratio Lower Upper

91 100

92 60.0 47.6 71.4

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

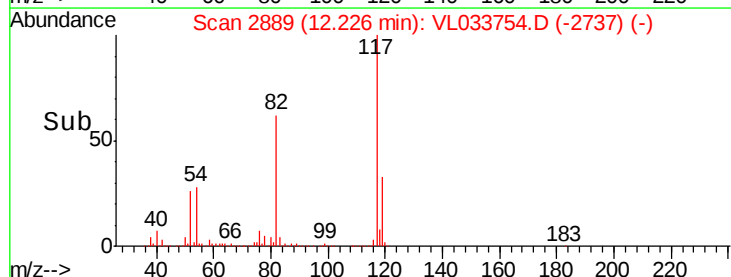
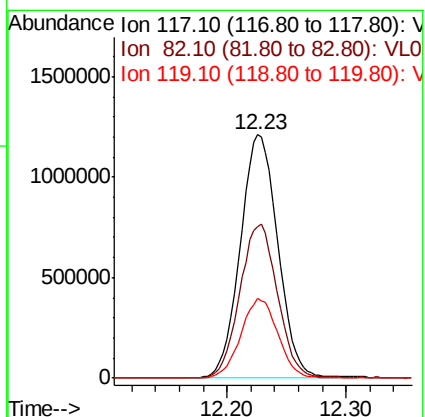
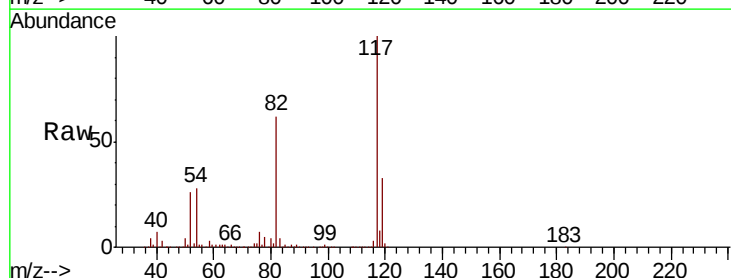
Tgt Ion: 117 Resp: 2642770

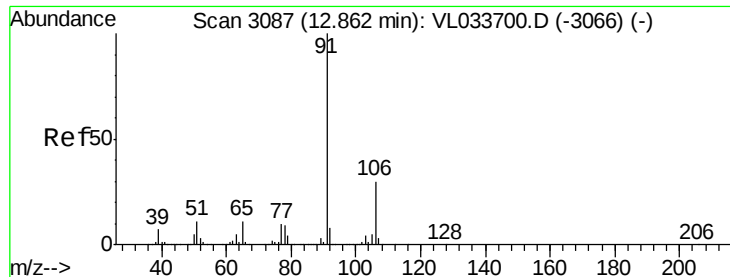
Ion Ratio Lower Upper

117 100

82 63.6 49.4 74.0

119 32.6 24.9 37.3





#58

Ethyl Benzene

Concen: 0.471 ppbv

RT: 12.85 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion: 91 Resp: 164861

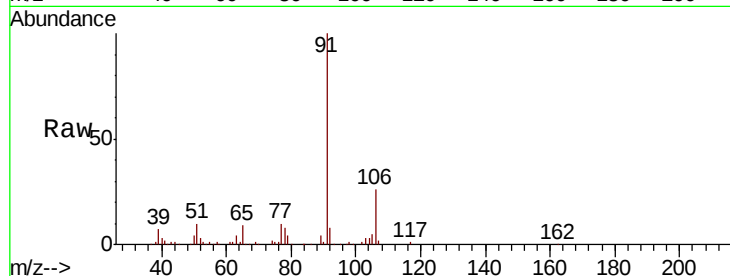
Ion Ratio Lower Upper

91 100

106 26.2 23.9 35.9

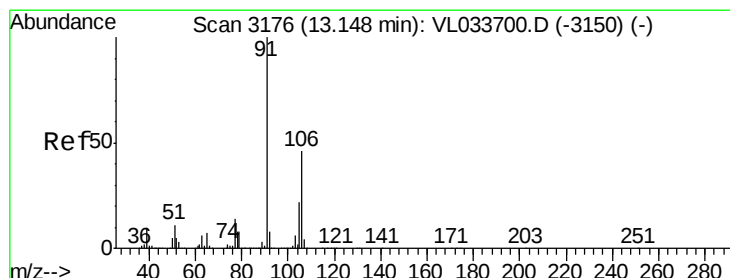
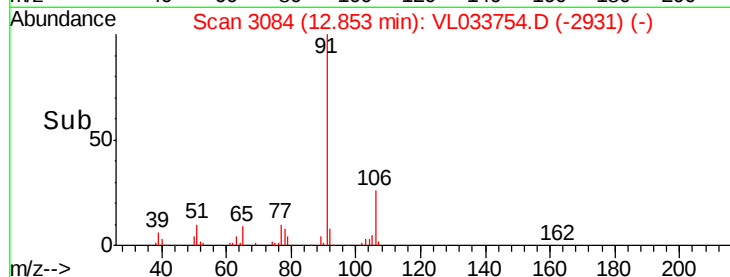
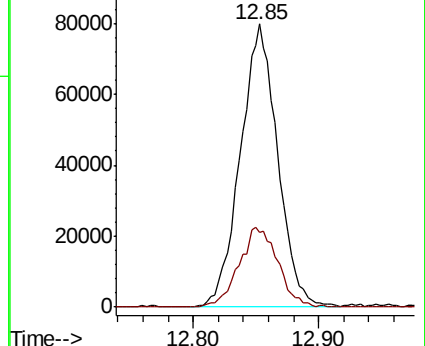
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.732 ppbv

RT: 13.11 min Scan# 3163

Delta R.T. -0.04 min

Lab File: VL033754.D

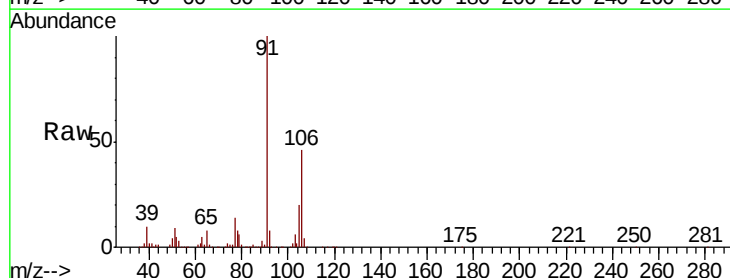
Acq: 22 May 2019 21:26

Tgt Ion: 91 Resp: 529751

Ion Ratio Lower Upper

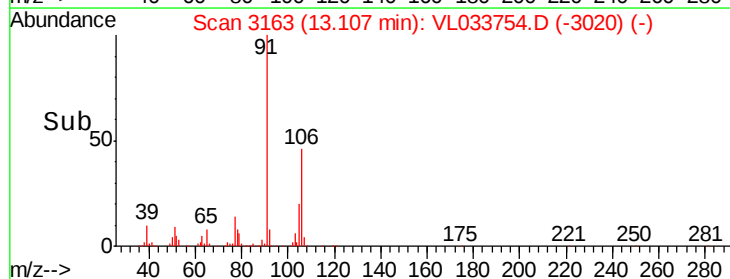
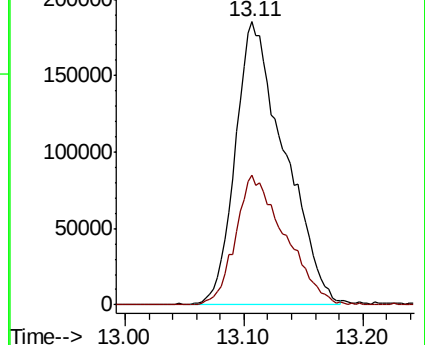
91 100

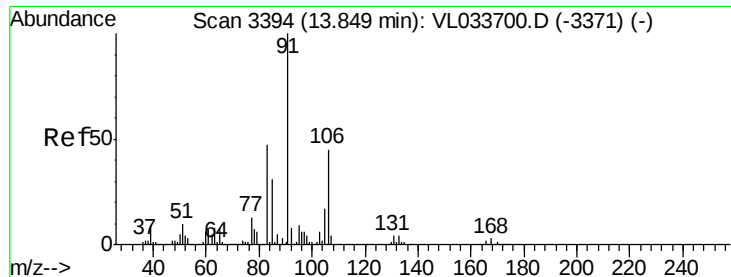
106 46.1 35.8 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





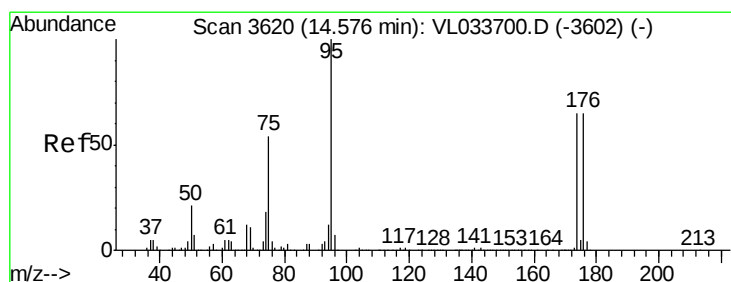
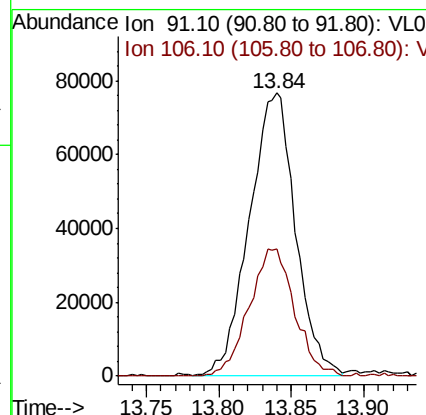
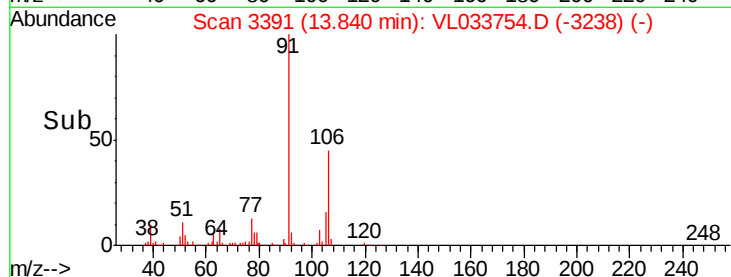
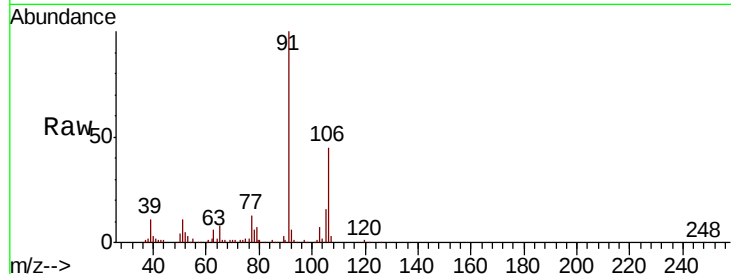
#60
o-Xylene
Concen: 0.546 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3001-55DL

Tot Ion: 91 Resp: 168313
Ion Ratio Lower Upper
91 100
106 45.0 21.6 64.8

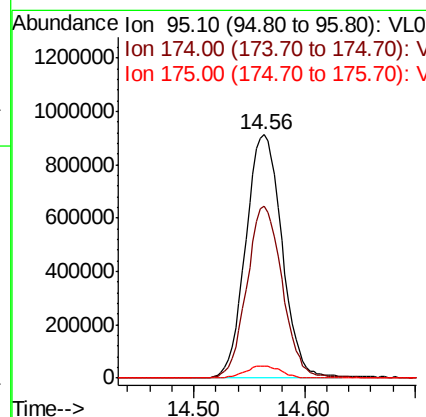
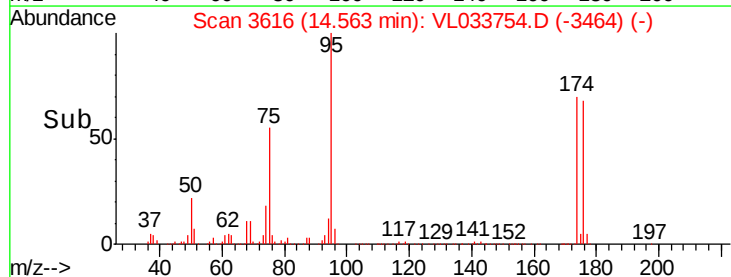
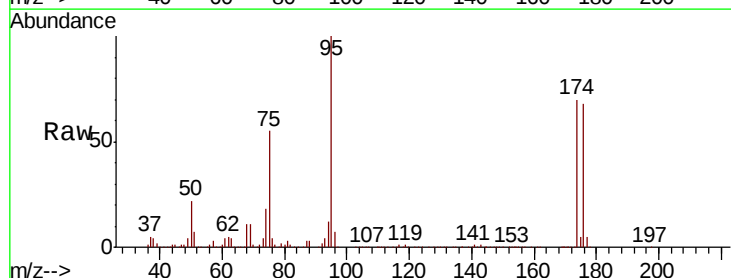
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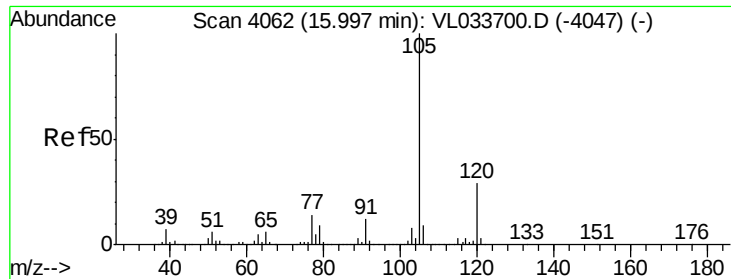
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.715 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033754.D
Acq: 22 May 2019 21:26

Tgt Ion: 95 Resp: 2081280
Ion Ratio Lower Upper
95 100
174 69.5 53.9 80.9
175 4.9 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.102 ppbv m

RT: 15.99 min Scan# 4059

Delta R.T. -0.01 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Instrument :

MSVOA_L

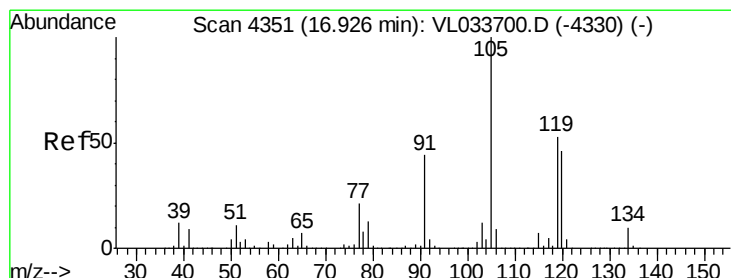
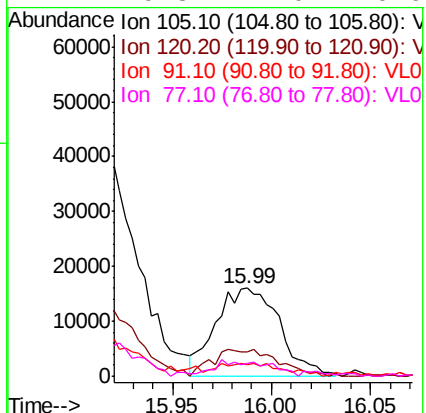
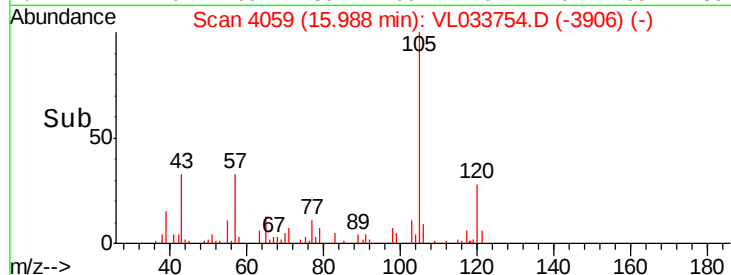
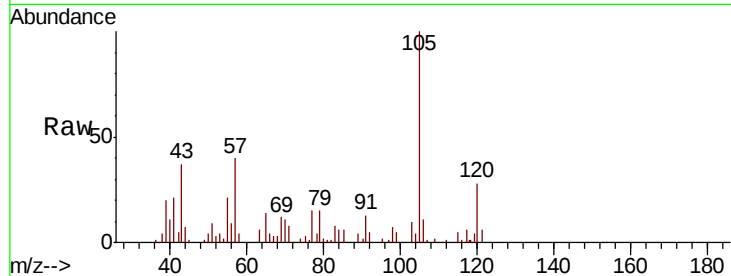
ClientSampleId :

BPS1-SG-3001-55DL

Tot Ion	Ratio	Resp	Lower	Upper
105	100	35799		
120	32.2	23.1	34.7	
91	0.0	10.4	15.6	
77	19.8	11.0	16.6	

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.256 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.02 min

Lab File: VL033754.D

Acq: 22 May 2019 21:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	95741		
120	34.6	36.8	55.2	
91	6.1	35.4	53.0	
77	12.5	16.8	25.2	

