

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033779.D
 Acq On : 23 May 2019 18:46
 Operator : SY/AP
 Sample : K2929-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3003-55DL

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:33 AM

Quant Time: May 24 05:36:30 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	1100172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2812514	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2827143	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2272896	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds					Ovalue
9) Propene	3.03	41	267578	4.992	ppbv 90
10) Heptane	8.24	43	81905	0.540	ppbv 97
13) Ethanol	3.65	45	44483	2.568	ppbv 99
15) Acetone	3.89	43	1043809	6.838	ppbv 91
17) tert-Butyl alcohol	4.37	59	31045	0.252	ppbv # 94
26) Hexane	5.77	57	74751	0.648	ppbv # 54
27) Carbon Disulfide	4.62	76	46828	0.296	ppbv # 90
30) Cyclohexane	7.25	84	11316m	0.117	ppbv
34) 2-Butanone	5.33	43	103656	0.595	ppbv 96
36) Benzene	6.99	78	100823	0.394	ppbv 97
53) Toluene	9.94	91	974065	3.530	ppbv 100
58) Ethyl Benzene	12.86	91	177339	0.474	ppbv 97
59) m/p-Xylene	13.11	91	610731m	1.866	ppbv
60) o-Xylene	13.84	91	181067	0.549	ppbv 98
72) 4-Ethyltoluene	15.99	105	44373m	0.118	ppbv
74) 1,2,4-Trimethylbenzene	16.92	105	109129m	0.272	ppbv

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

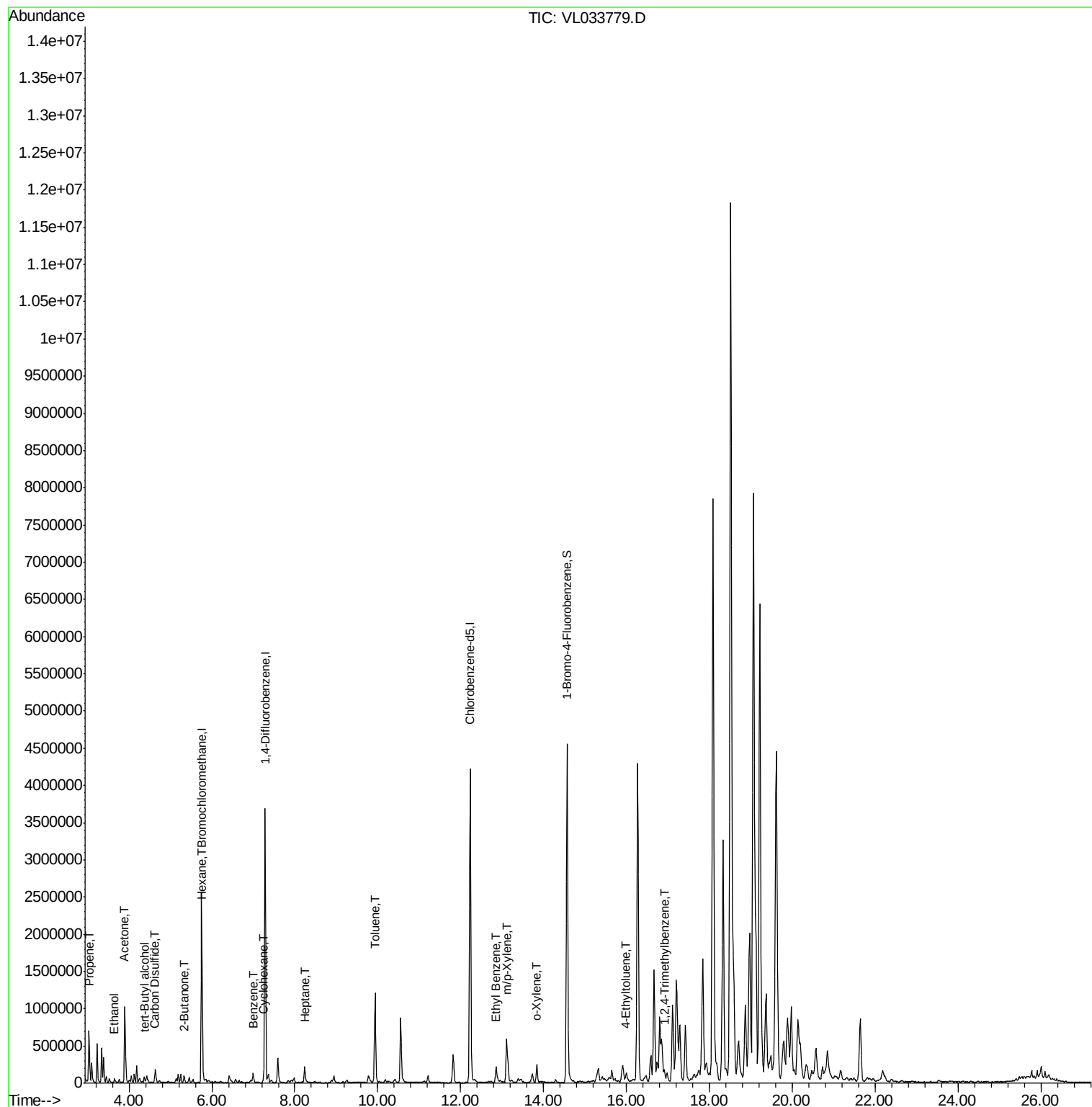
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052319\
Data File : VL033779.D
Acq On : 23 May 2019 18:46
Operator : SY/AP
Sample : K2929-05DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

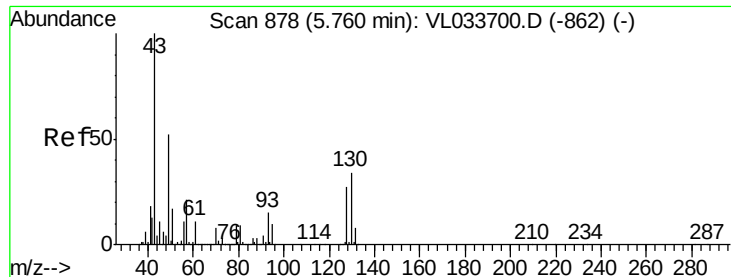
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Manual Integrations
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5/28/2019 2:53:33 AM

Quant Time: May 24 05:36:30 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: VL033779.D

Acq: 23 May 2019 18:46

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55DL

Tot Ion: 49 Resp: 1100172

Ion Ratio Lower Upper

49 100

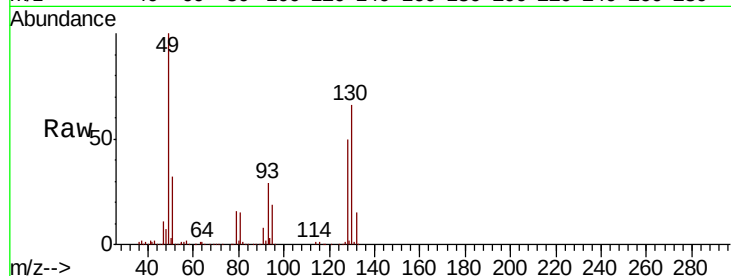
128 52.3 25.2 75.6

130 67.2 32.5 97.5

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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

800000

600000

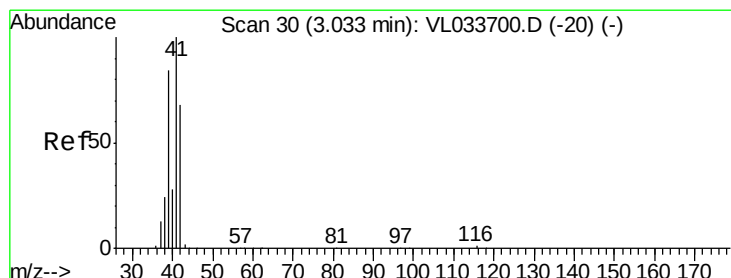
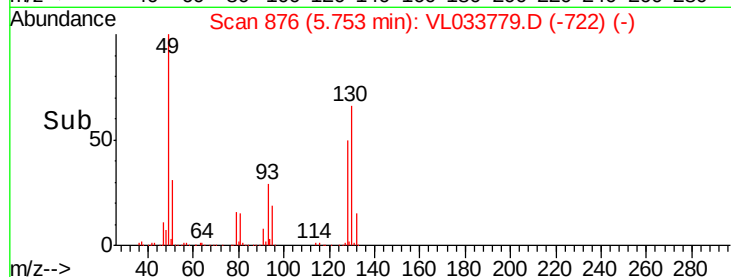
400000

200000

0

5.65 5.70 5.75 5.80 5.85

Time-->



#9

Propene

Concen: 4.992 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033779.D

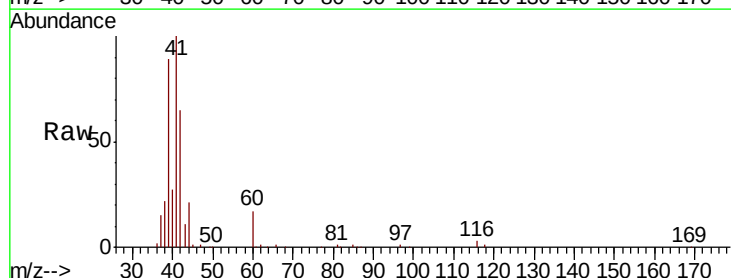
Acq: 23 May 2019 18:46

Tgt Ion: 41 Resp: 267578

Ion Ratio Lower Upper

41 100

42 62.0 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

200000

150000

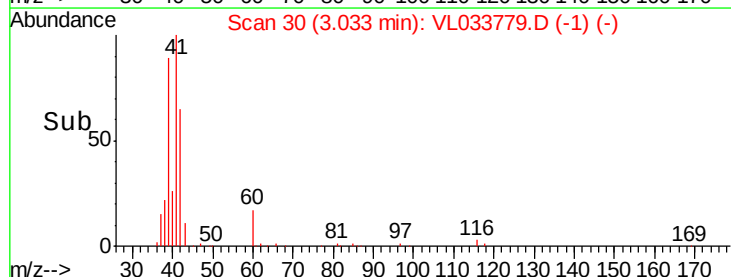
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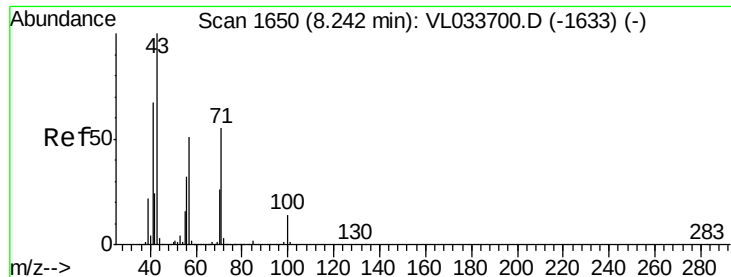
50000

0

3.00 3.05 3.10

Time-->





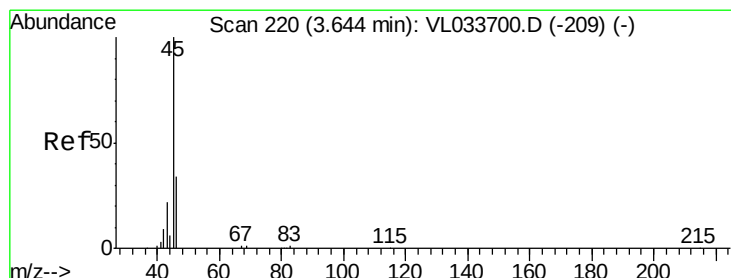
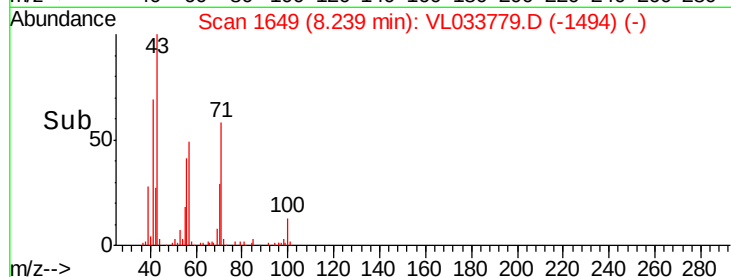
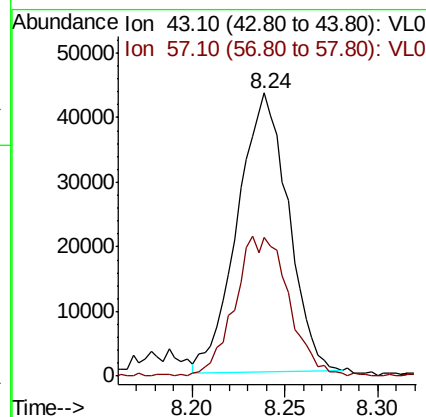
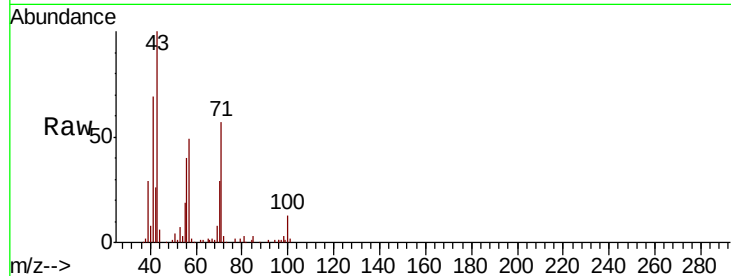
#10
Heptane
Concen: 0.540 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Tot Ion: 43 Resp: 81905
Ion Ratio Lower Upper
43 100
57 53.7 41.4 62.0

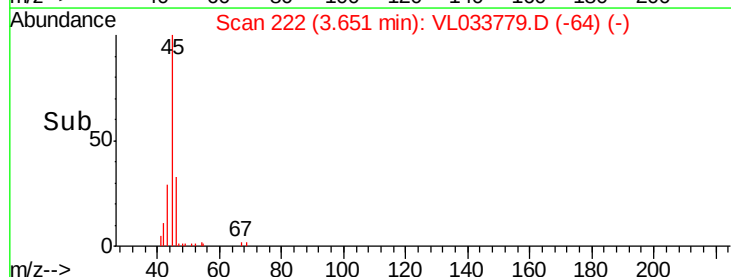
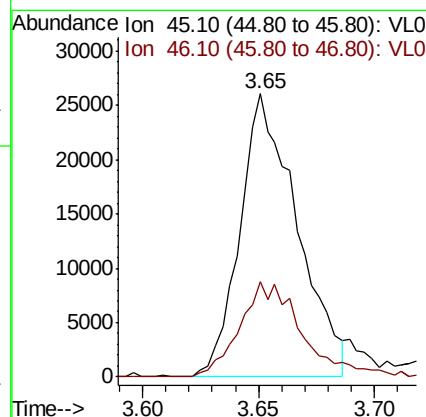
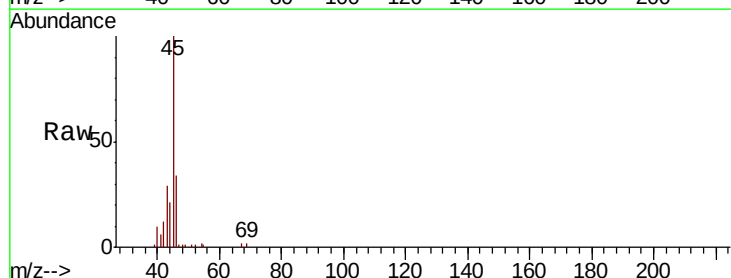
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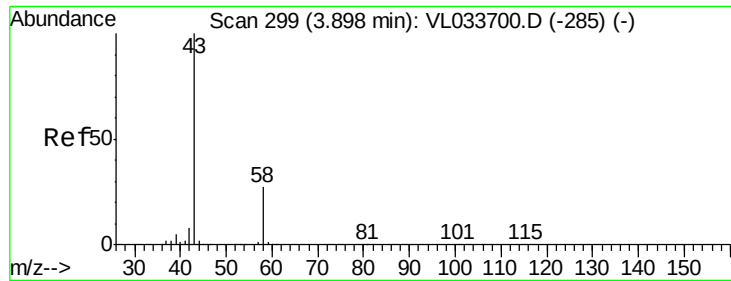
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#13
Ethanol
Concen: 2.568 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Tgt Ion: 45 Resp: 44483
Ion Ratio Lower Upper
45 100
46 36.5 14.8 59.0





#15

Acetone

Concen: 6.838 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55DL

Tot Ion: 43 Resp: 1043809

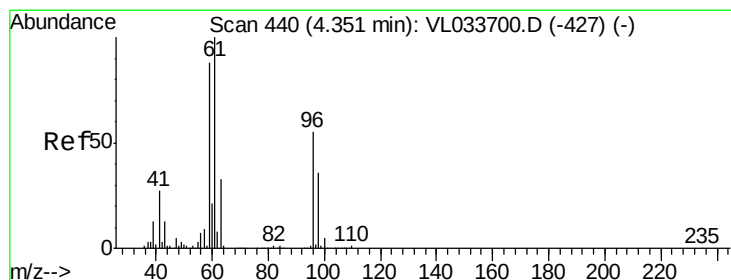
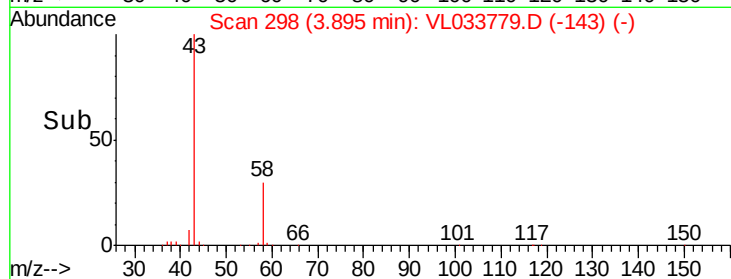
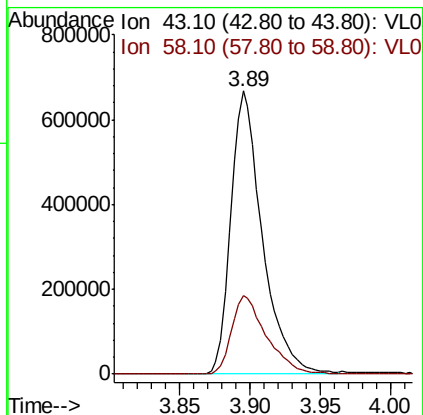
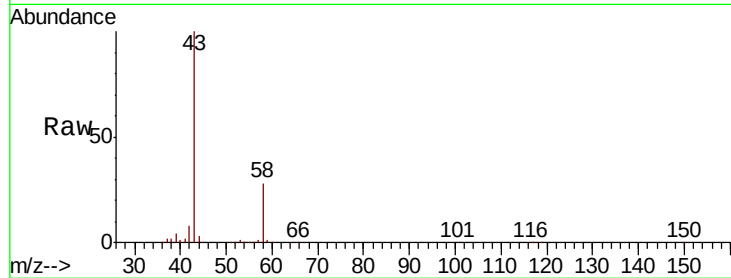
Ion Ratio Lower Upper

43 100

58 31.1 21.3 31.9

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#17

tert-Butyl alcohol

Concen: 0.252 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033779.D

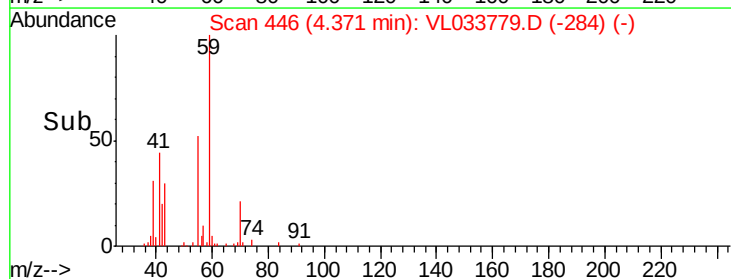
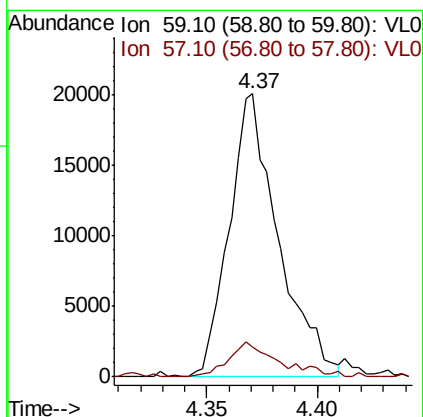
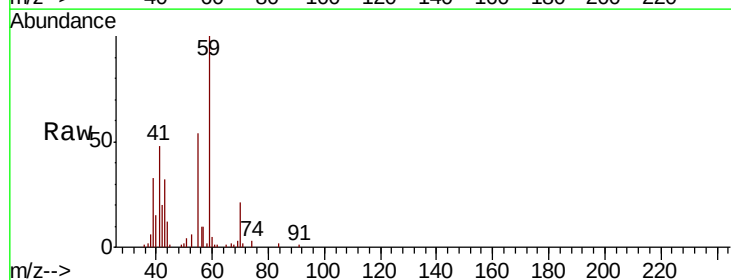
Acq: 23 May 2019 18:46

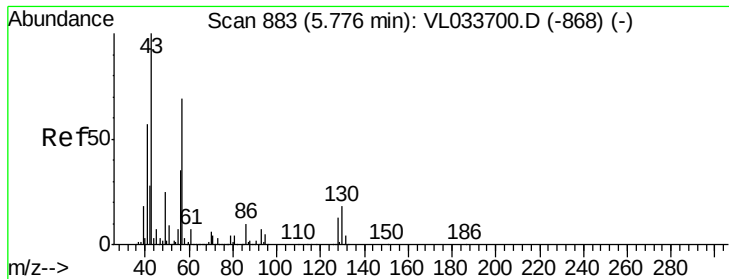
Tgt Ion: 59 Resp: 31045

Ion Ratio Lower Upper

59 100

57 12.9 8.4 12.6#





#26

Hexane

Concen: 0.648 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Instrument :

MSVOA_L

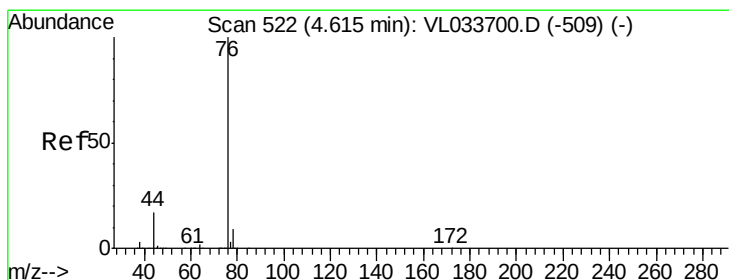
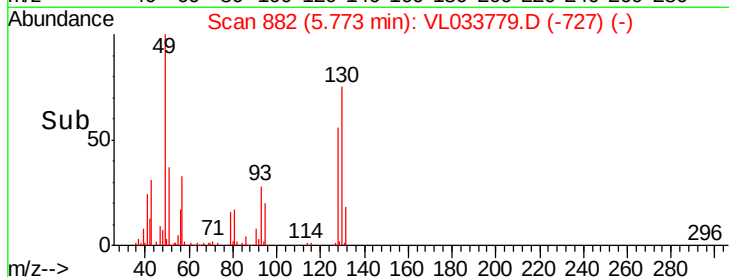
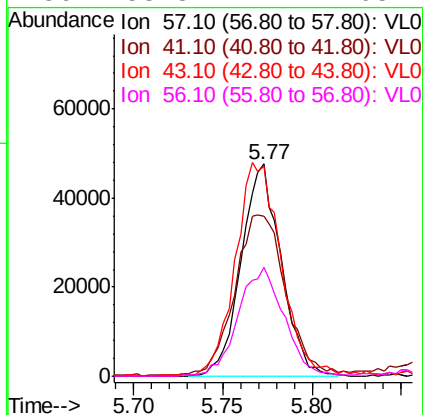
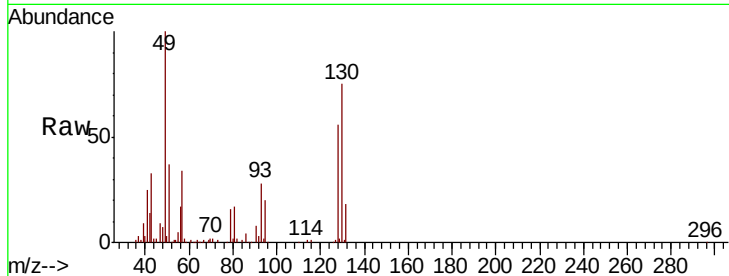
ClientSampleId :

BPS1-SG-3003-55DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.4	69.8	104.6
43	116.7	181.8	272.6#
56	58.8	42.1	63.1

Manual Integrations
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#27

Carbon Disulfide

Concen: 0.296 ppbv

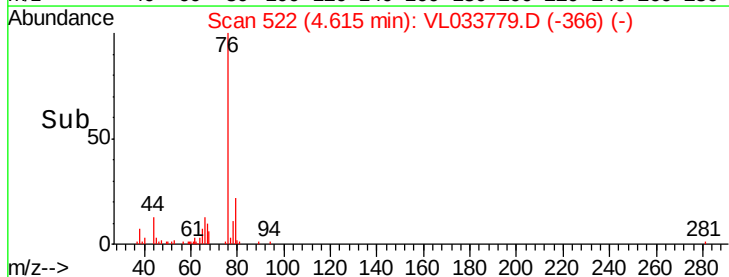
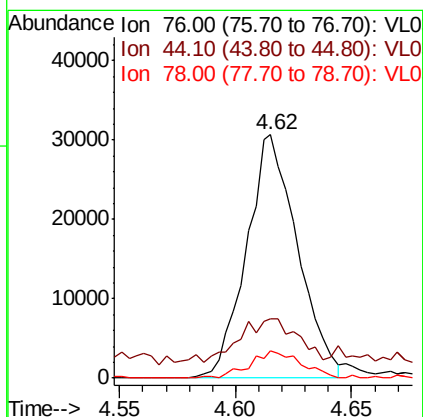
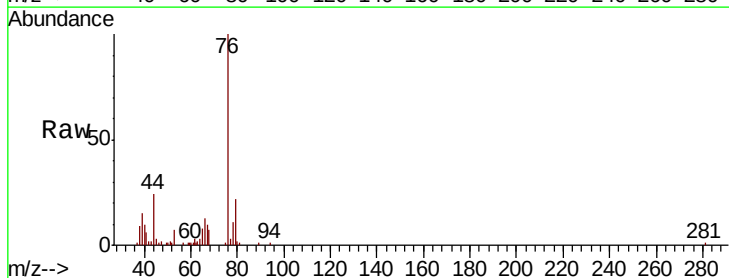
RT: 4.62 min Scan# 522

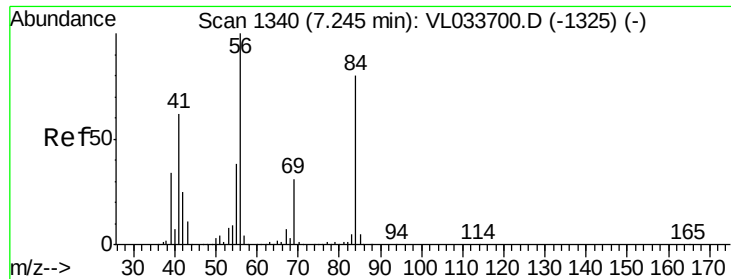
Delta R.T. 0.00 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Tgt Ion	Ratio	Lower	Upper
76	100		
44	22.4	13.8	20.8#
78	11.6	7.4	11.0#





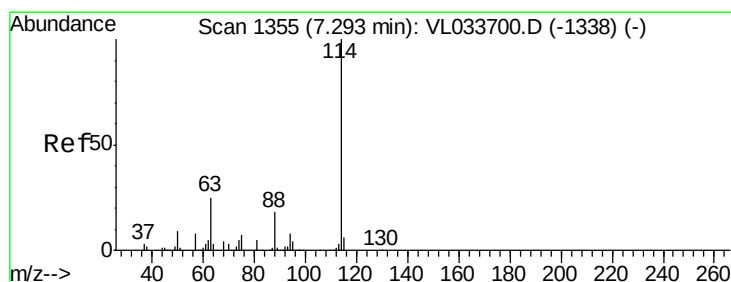
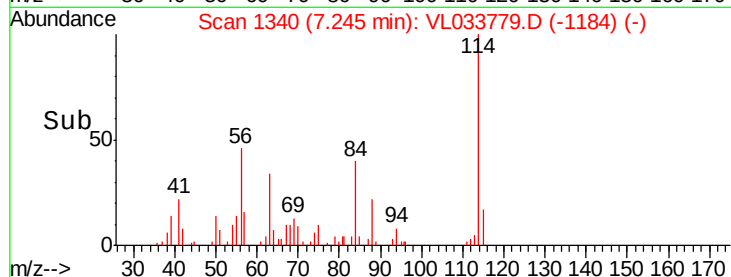
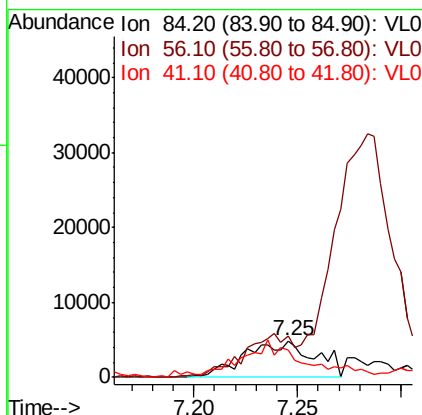
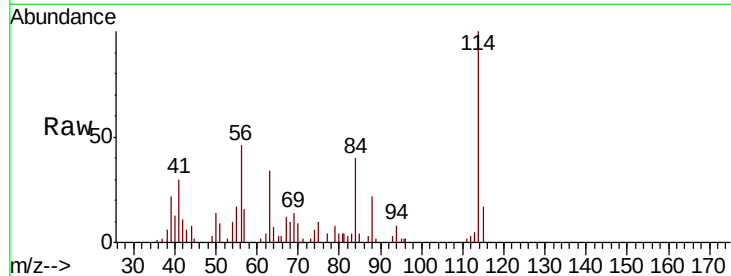
#30
Cyclohexane
Concen: 0.117 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	95.2	66.0	99.0

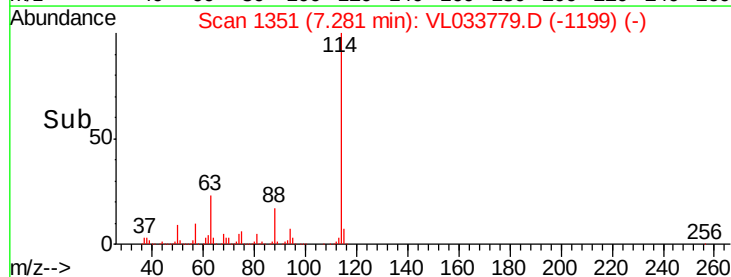
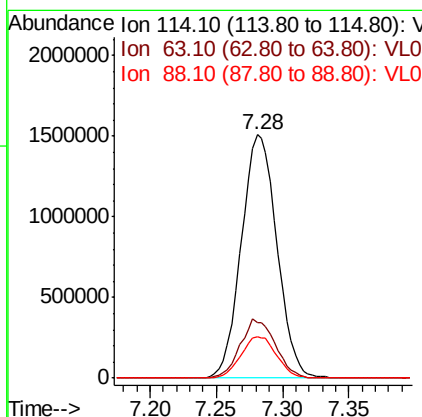
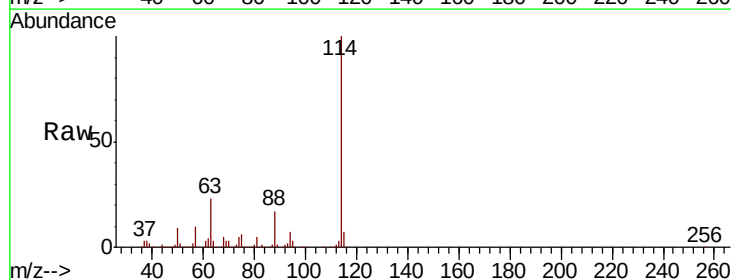
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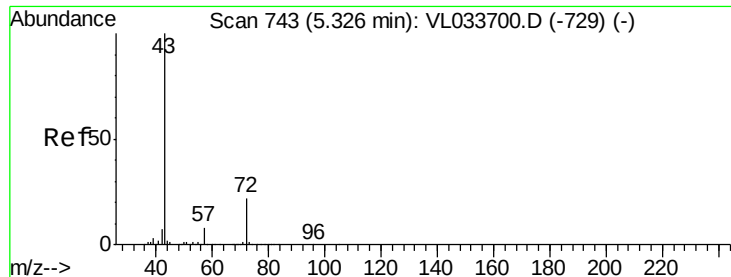
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5/28/2019 2:53:33 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.0	20.9	31.3
88	17.3	14.3	21.5





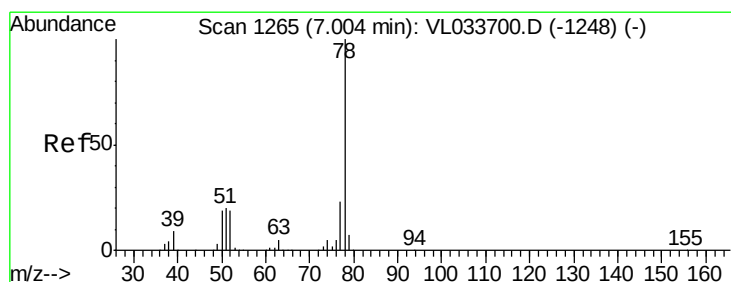
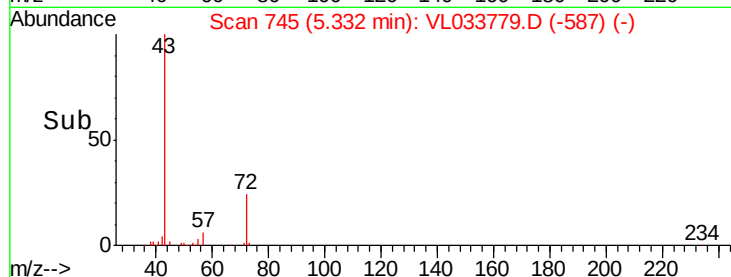
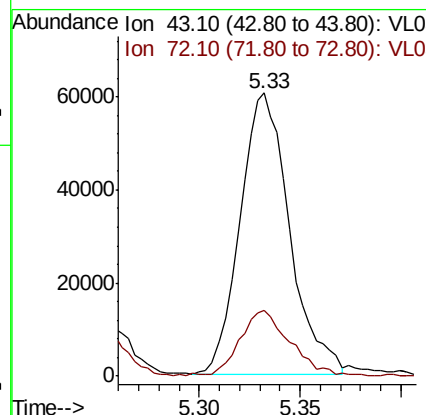
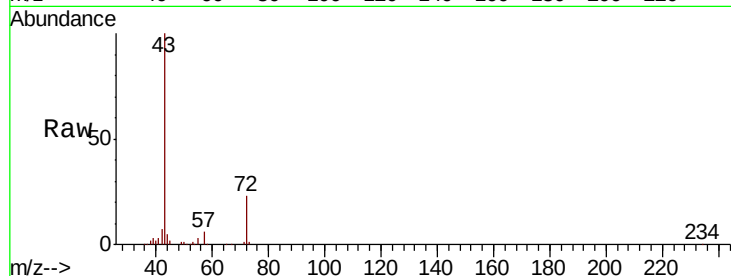
#34
2-Butanone
Concen: 0.595 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.8	26.6

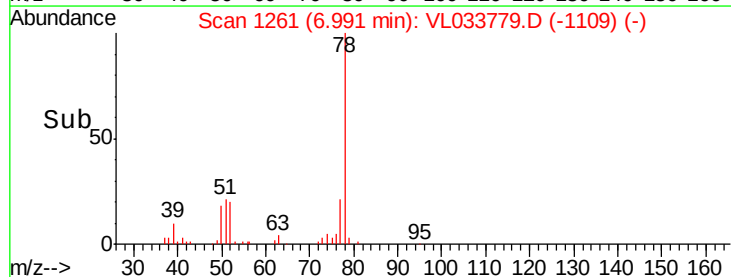
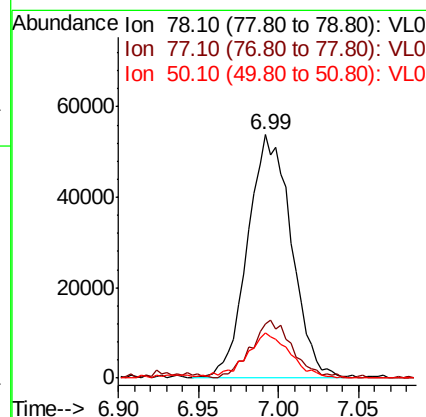
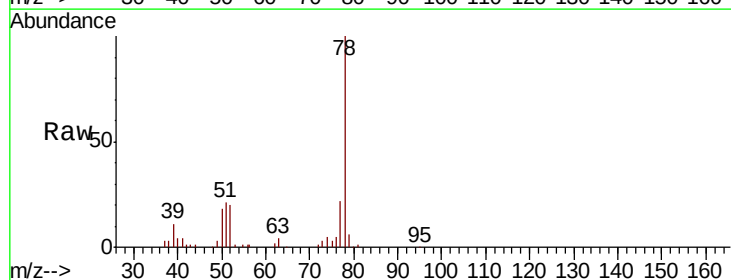
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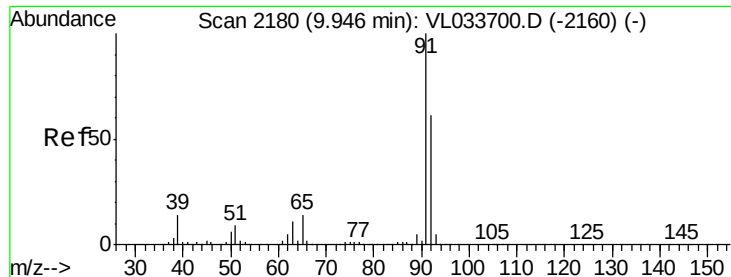
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#36
Benzene
Concen: 0.394 ppbv
RT: 6.99 min Scan# 1261
Delta R.T. -0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.4	27.6
50	17.7	15.5	23.3





#53

Toluene

Concen: 3.530 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55DL

Tot Ion: 91 Resp: 974065

Ion Ratio Lower Upper

91 100

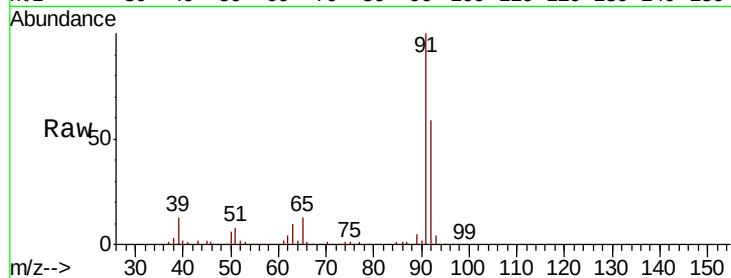
92 59.2 47.6 71.4

Manual Integrations

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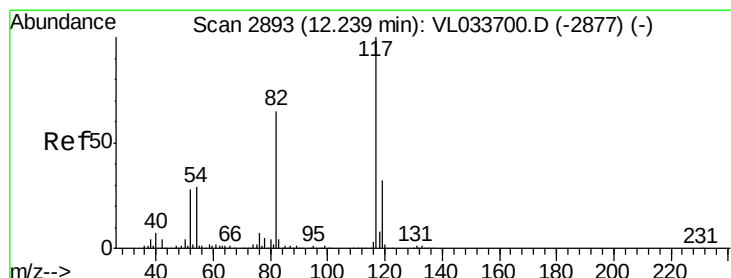
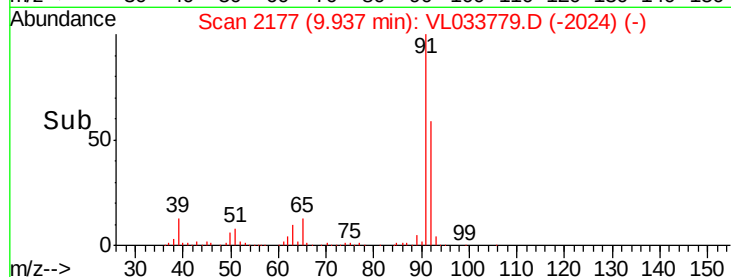
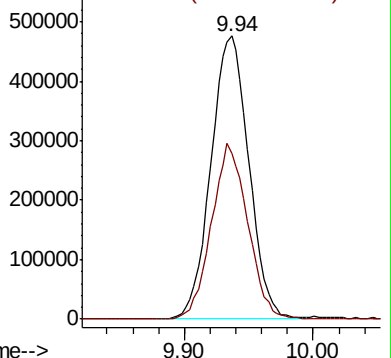
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

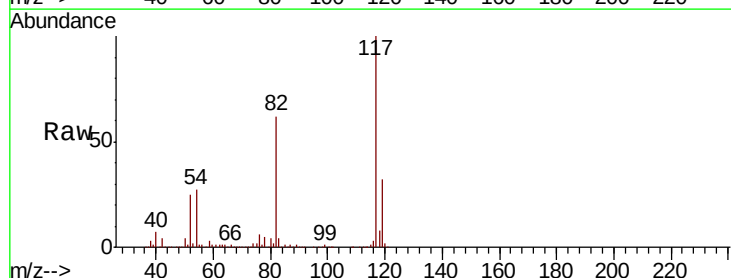
Tgt Ion: 117 Resp: 2827143

Ion Ratio Lower Upper

117 100

82 63.2 49.4 74.0

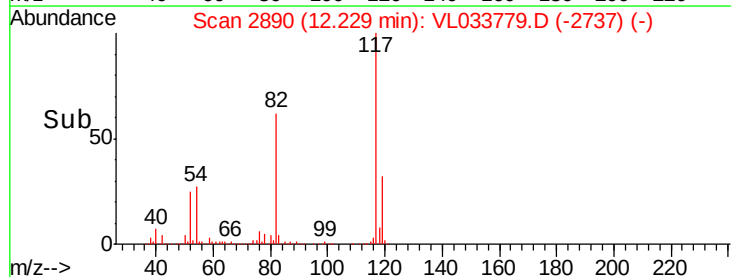
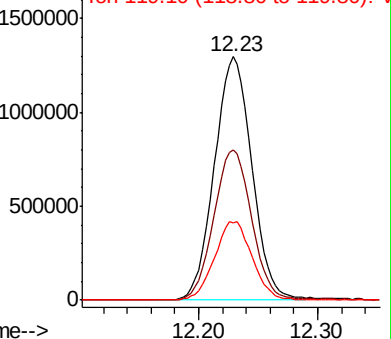
119 32.8 24.9 37.3

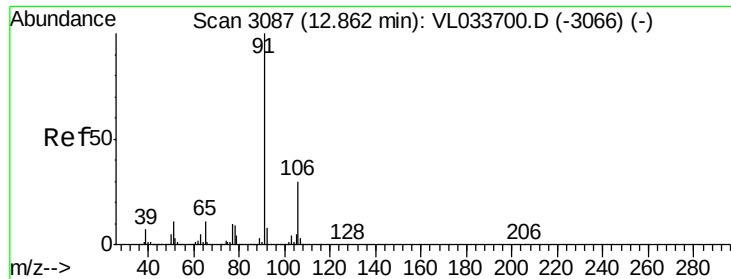


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





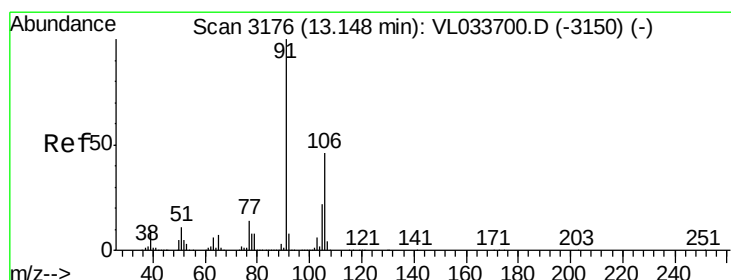
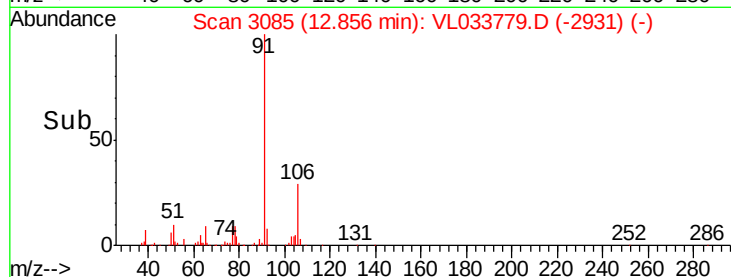
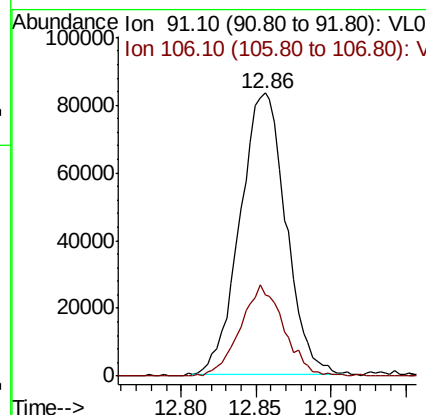
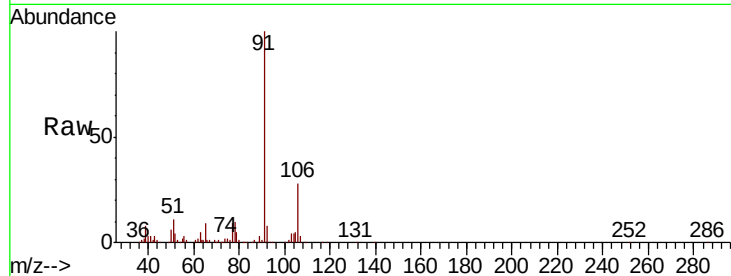
#58
Ethyl Benzene
Concen: 0.474 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Tot Ion: 91 Resp: 177339
Ion Ratio Lower Upper
91 100
106 28.4 23.9 35.9

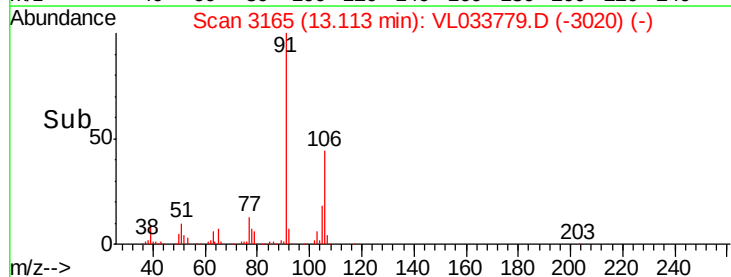
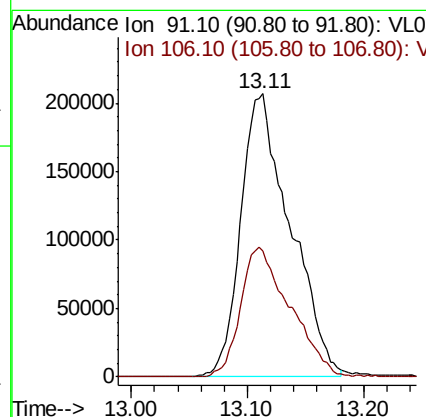
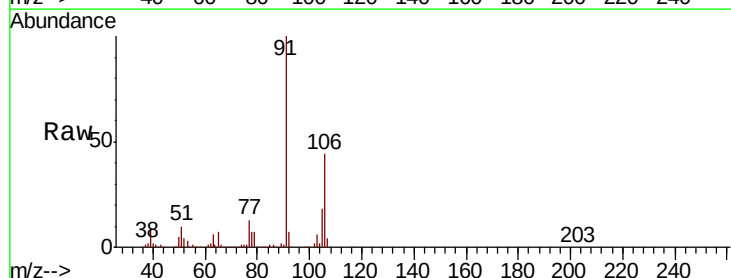
Manual Integrations
APPROVED

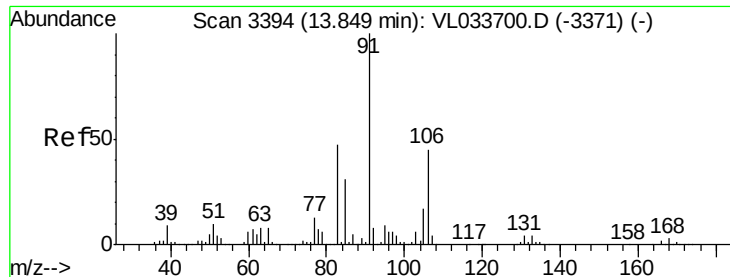
MMDadoda
5/28/2019 2:53:33 AM



#59
m/p-Xylene
Concen: 1.866 ppbv m
RT: 13.11 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Tgt Ion: 91 Resp: 610731
Ion Ratio Lower Upper
91 100
106 45.8 35.8 53.6





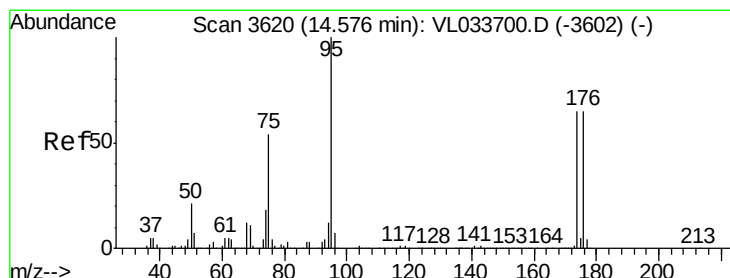
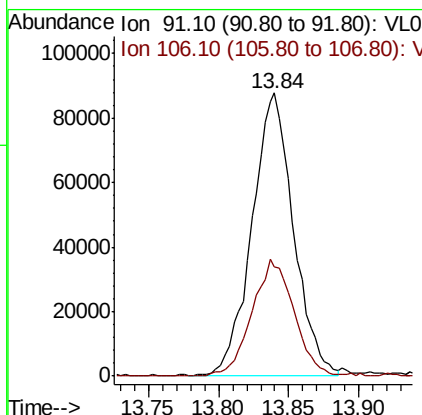
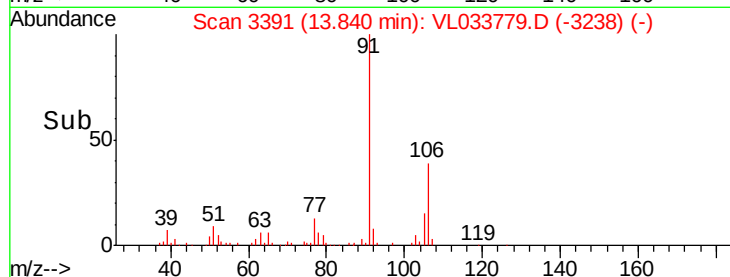
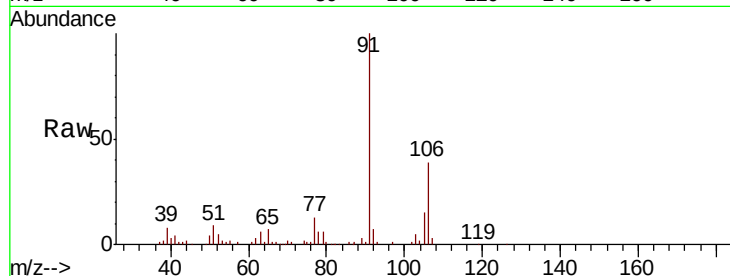
#60
o-Xylene
Concen: 0.549 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	41.8	21.6	64.8

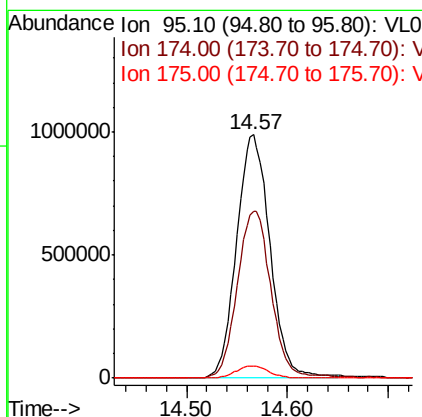
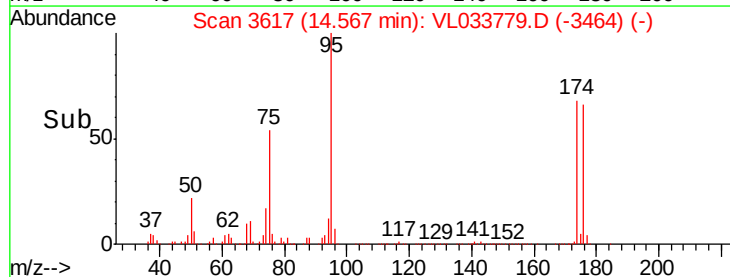
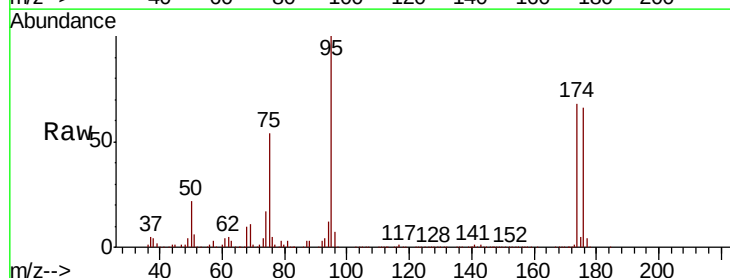
Manual Integrations
APPROVED

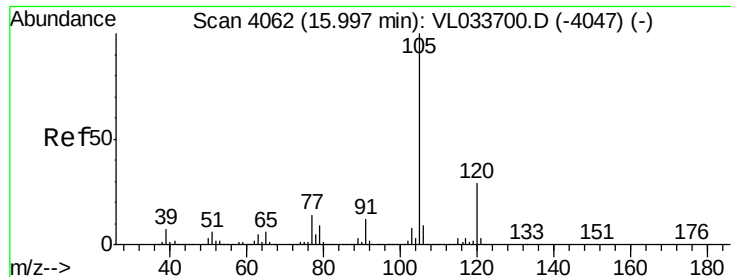
MMDadoda
5/28/2019 2:53:33 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.917 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033779.D
Acq: 23 May 2019 18:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.9	53.9	80.9
175	5.0	3.8	5.8





#72

4-Ethyltoluene

Concen: 0.118 ppbv m

RT: 15.99 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Instrument :

MSVOA_L

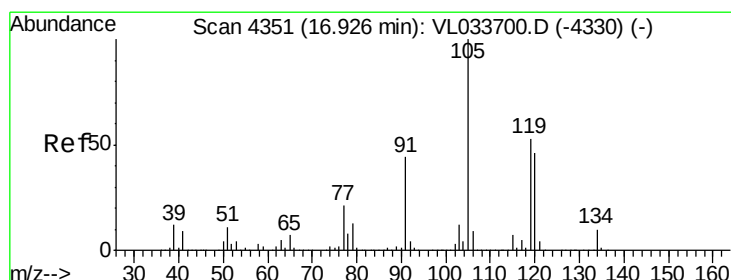
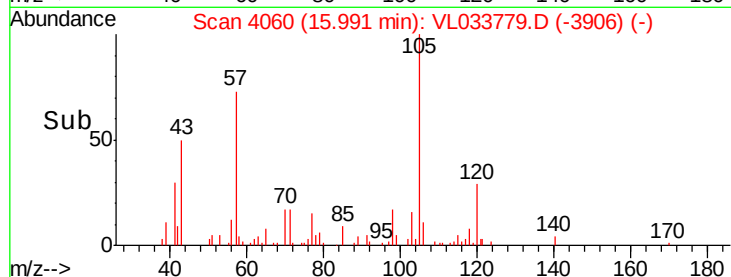
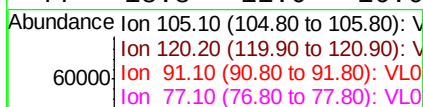
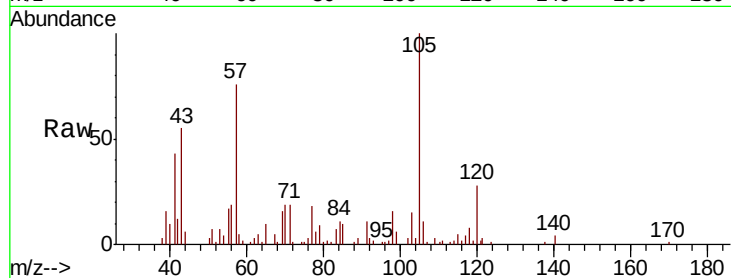
ClientSampleId :

BPS1-SG-3003-55DL

Tot Ion:	105	Resp:	44373
Ion Ratio	Lower	Upper	
105	100		
120	30.2	23.1	34.7
91	17.5	10.4	15.6#
77	18.8	11.0	16.6#

Manual Integrations
APPROVED

MMDadoda
5/28/2019 2:53:33 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.272 ppbv m

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033779.D

Acq: 23 May 2019 18:46

Tgt Ion:	105	Resp:	109129
Ion Ratio	Lower	Upper	
105	100		
120	47.1	36.8	55.2
91	9.8	35.4	53.0#
77	15.4	16.8	25.2#

