

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036981.D
 Acq On : 18 May 2021 22:52
 Operator : SY/AP
 Sample : M2430-04 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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 5/20/2021 5:56:14 PM

Quant Time: May 20 16:25:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1277038	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3632946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3396626	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2541293	9.96	ppbv	0.00	MMDadoda
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.03	85	35953	0.166	ppbv	95
3) Chlorodifluoromethane	2.96	51	121783m	0.521	ppbv	5/20/2021 5:56:14 PM
4) Chloromethane	3.12	50	12903m	0.162	ppbv	
9) Propene	3.01	41	324224	3.870	ppbv #	77
10) Heptane	8.10	43	163448	0.783	ppbv	99
11) Trichlorofluoromethane	3.93	101	39314	0.196	ppbv	93
13) Ethanol	3.59	45	1141969	102.165	ppbv	97
15) Acetone	3.83	43	8612828	65.846	ppbv	97
17) tert-Butyl alcohol	4.29	59	43577m	0.364	ppbv	
19) Isopropyl Alcohol	3.95	45	2360816	33.576	ppbv #	35
20) Methylene Chloride	4.33	84	217532	3.102	ppbv	97
26) Hexane	5.67	57	698563	4.351	ppbv #	47
27) Carbon Disulfide	4.53	76	58271	0.360	ppbv #	85
29) Chloroform	5.74	83	22886m	0.101	ppbv	
30) Cyclohexane	7.10	84	79627	0.584	ppbv	86
34) 2-Butanone	5.23	43	506239	3.827	ppbv	96
36) Benzene	6.87	78	457911	1.463	ppbv	97
38) Trichloroethene	7.81	130	869956	6.499	ppbv	96
52) Tetrachloroethene	11.21	164	7471253	60.041	ppbv	94
53) Toluene	9.79	91	481344	1.293	ppbv	100
58) Ethyl Benzene	12.69	91	210634	0.439	ppbv #	88
59) m/p-Xylene	12.94	91	542274m	1.368	ppbv	
60) o-Xylene	13.67	91	246028	0.651	ppbv	99
64) n-propylbenzene	15.54	120	27541	0.197	ppbv	78
70) n-Butylbenzene	18.54	91	78100	0.143	ppbv #	82
72) 4-Ethyltoluene	15.82	105	122239	0.273	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.97	105	101785	0.242	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	347160	0.797	ppbv #	69

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

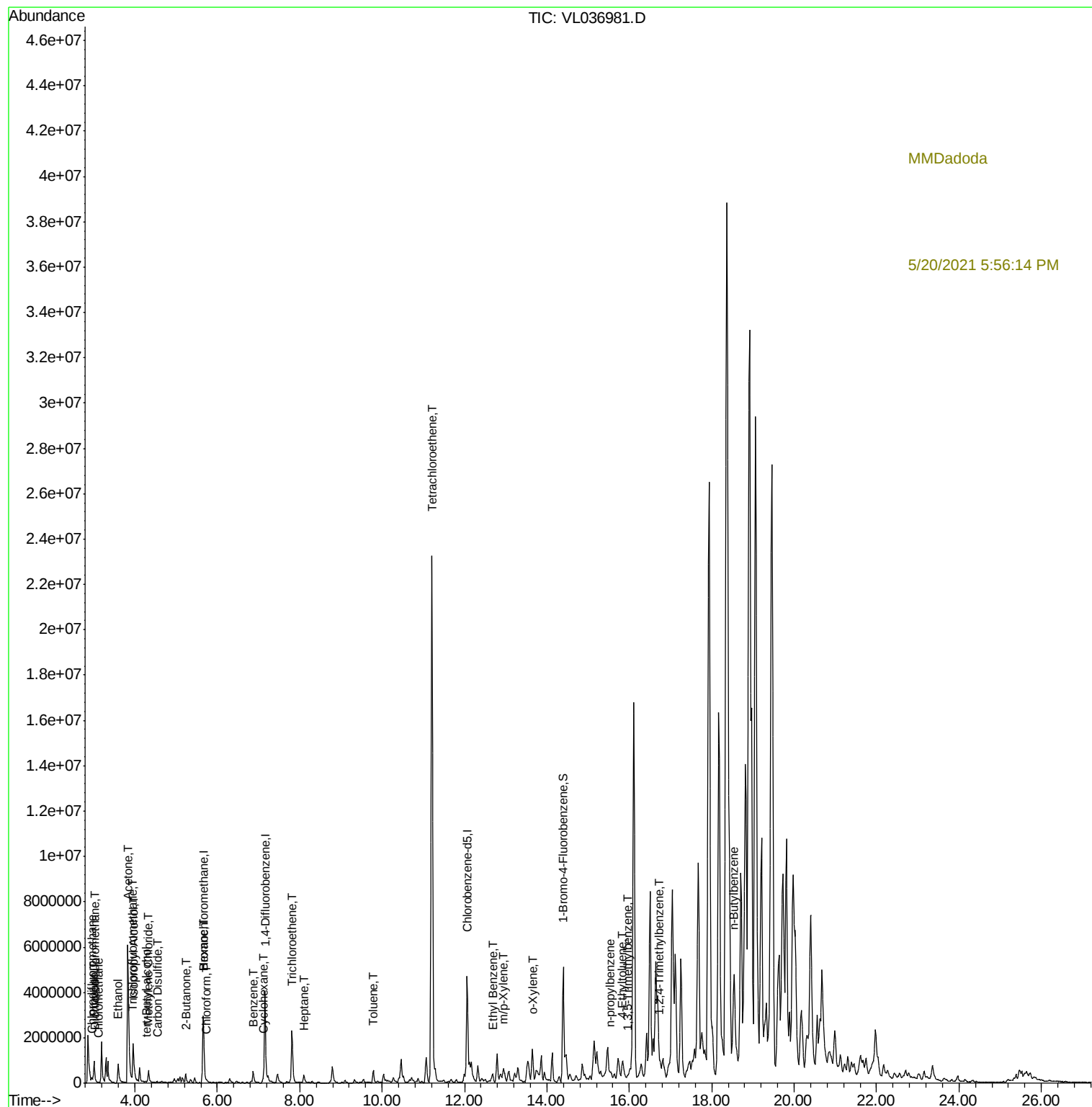
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\
Data File : VL036981.D
Acq On : 18 May 2021 22:52
Operator : SY/AP
Sample : M2430-04 2X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

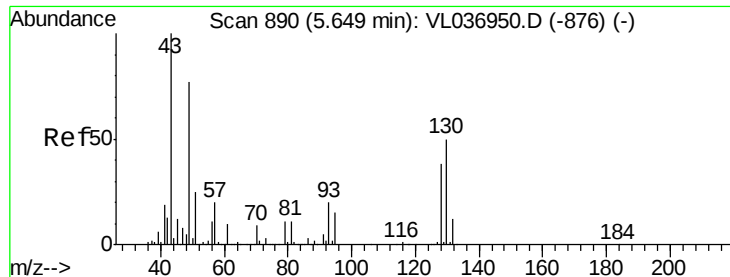
Instrument :
MSVOA_L
ClientSampled :
SV2

Manual Integrations
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Quant Time: May 20 16:25:51 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036981.D

Acq: 18 May 2021 22:52

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 49 Resp: 1277038

Ion Ratio Lower Upper

49 100

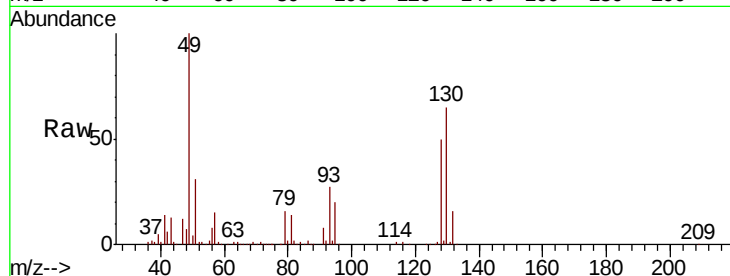
128 53.0 26.9 80.7

130 68.8 33.8 101.4

Manual Integrations
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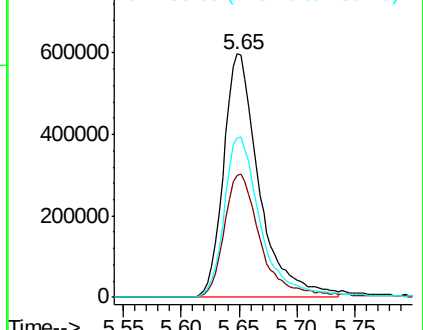
5/20/2021 5:56:14 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

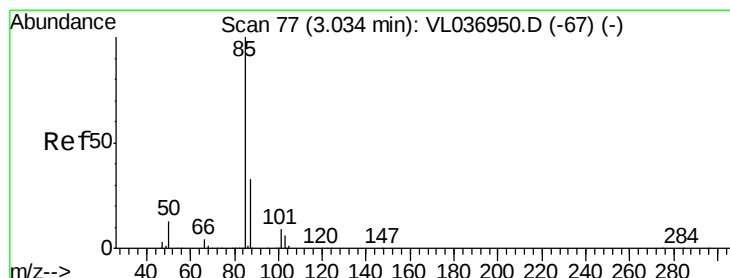
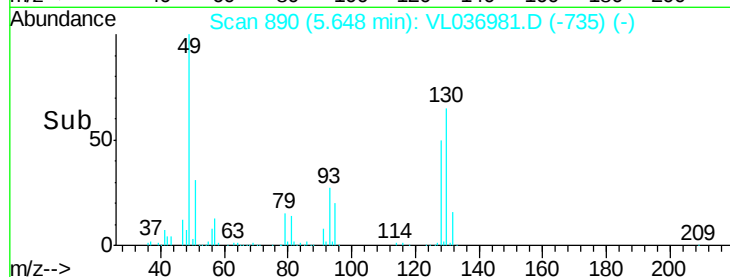
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



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#2

Dichlorodifluoromethane

Concen: 0.166 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL036981.D

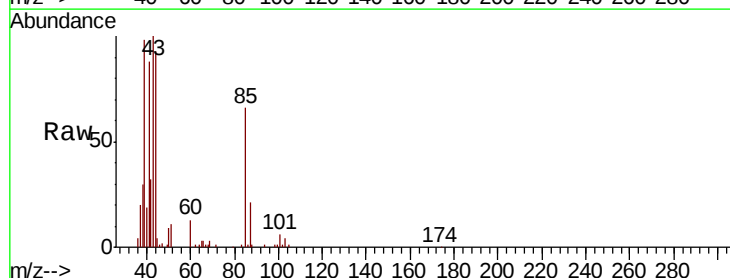
Acq: 18 May 2021 22:52

Tgt Ion: 85 Resp: 35953

Ion Ratio Lower Upper

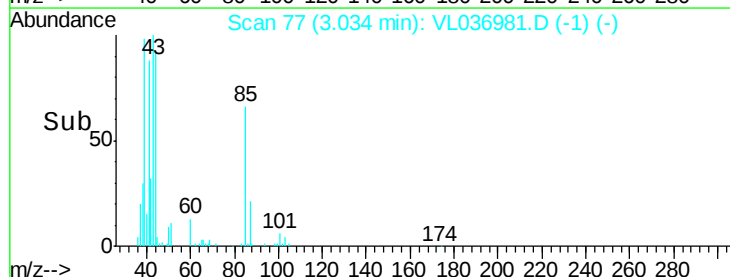
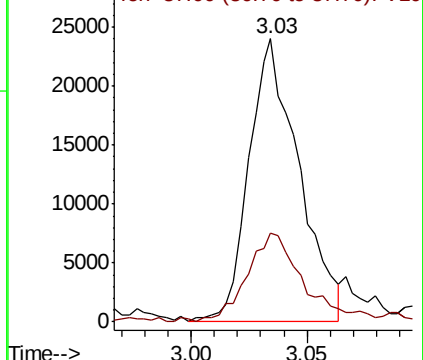
85 100

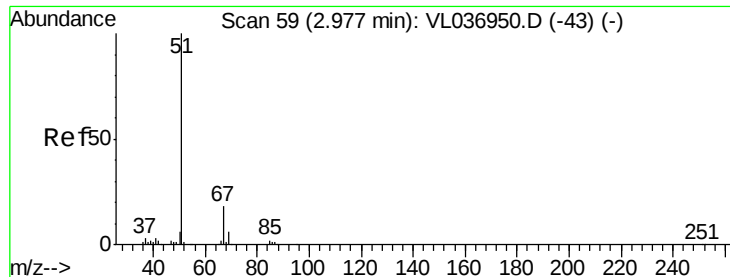
87 30.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

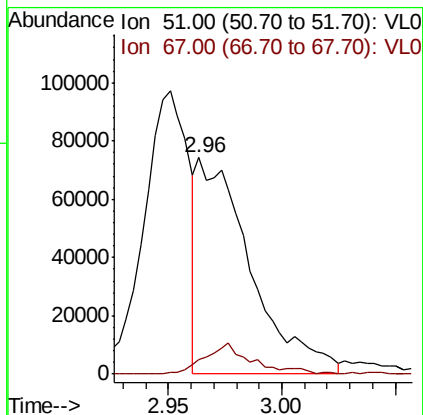
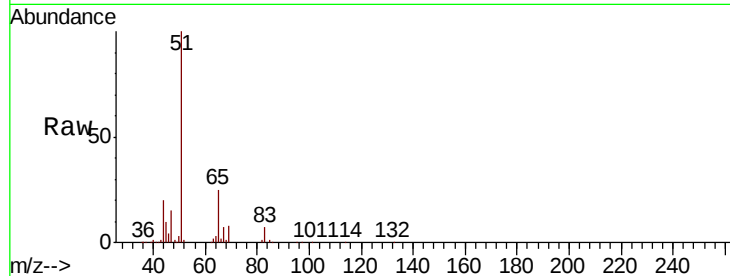
Chlorodifluoromethane
Concen: 0.521 ppbv m
RT: 2.96 min Scan# 55
Delta R.T. -0.01 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
51	100		
67	13.3	14.6	21.8#

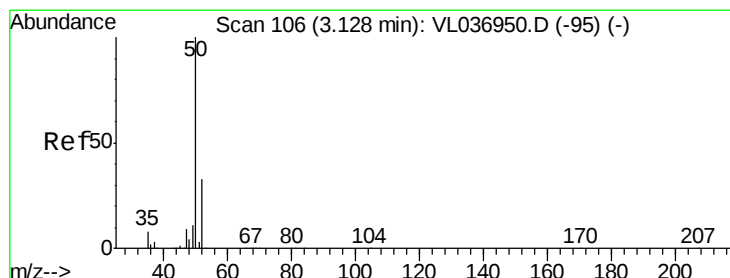
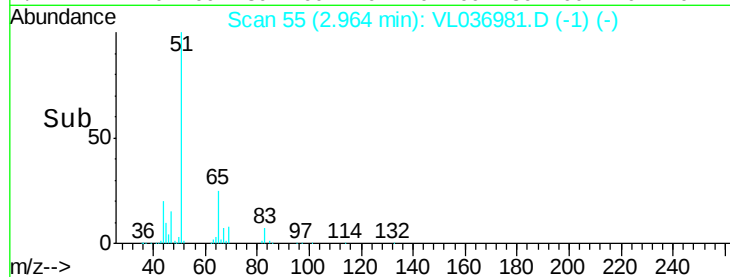
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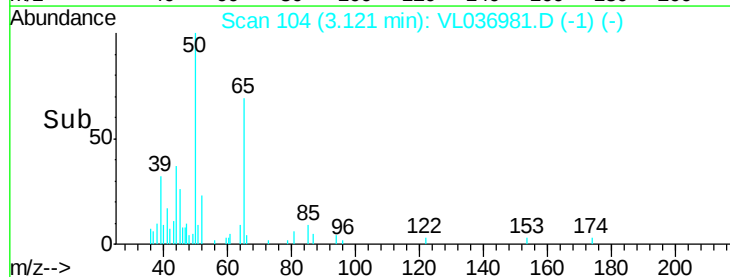
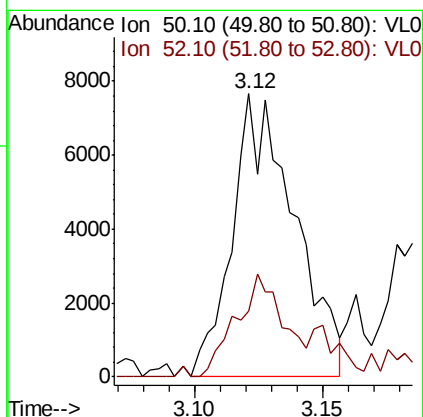
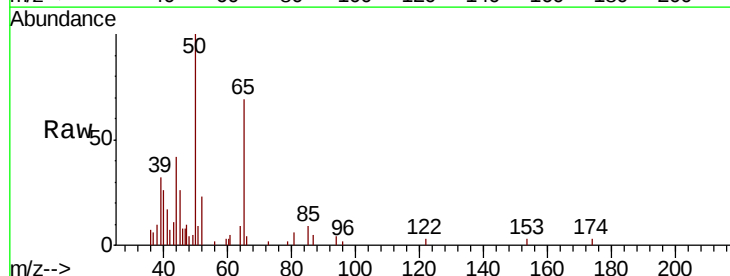
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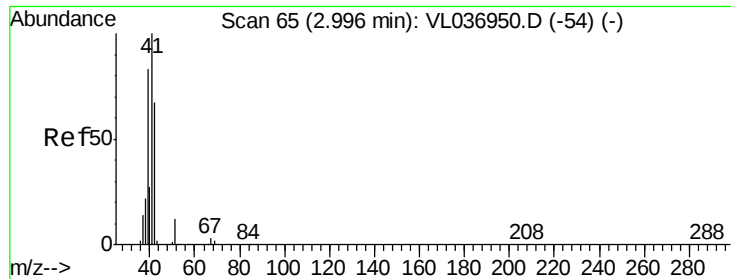


#4

Chloromethane
Concen: 0.162 ppbv m
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.2	26.1	39.1#





#9

Propene

Concen: 3.870 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036981.D

Acq: 18 May 2021 22:52

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 41 Resp: 324224

Ion Ratio Lower Upper

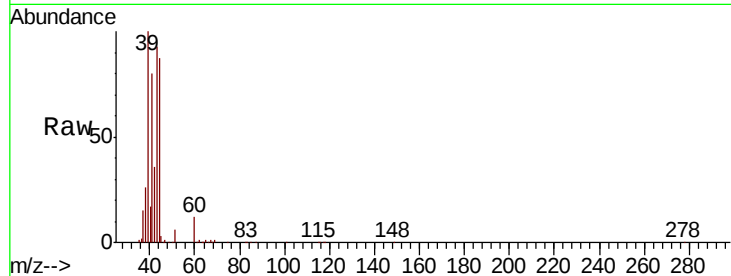
41 100

42 48.6 53.9 80.9#

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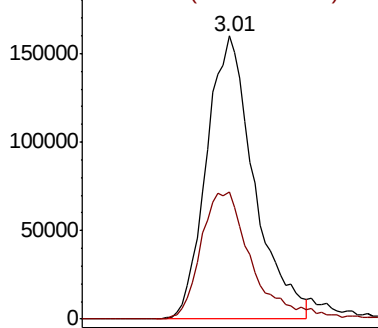
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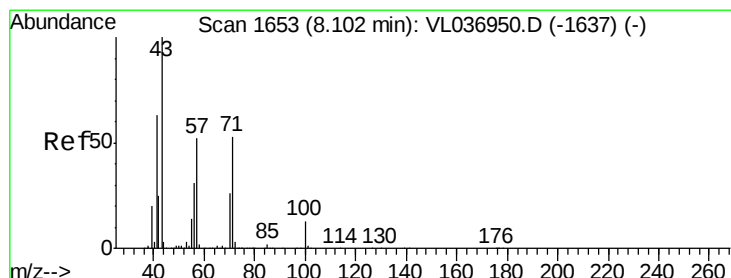
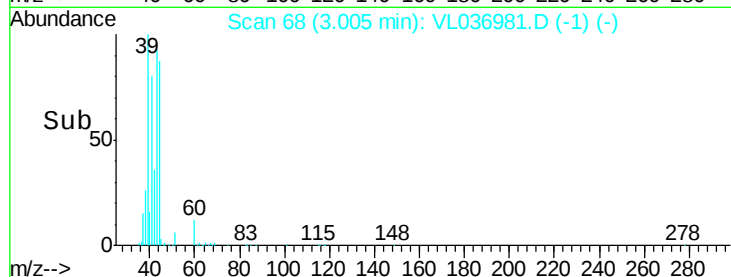
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



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#10

Heptane

Concen: 0.783 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL036981.D

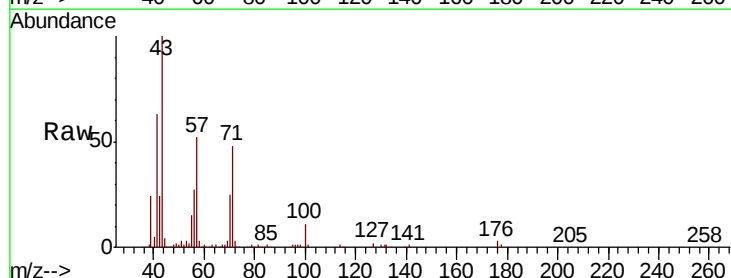
Acq: 18 May 2021 22:52

Tgt Ion: 43 Resp: 163448

Ion Ratio Lower Upper

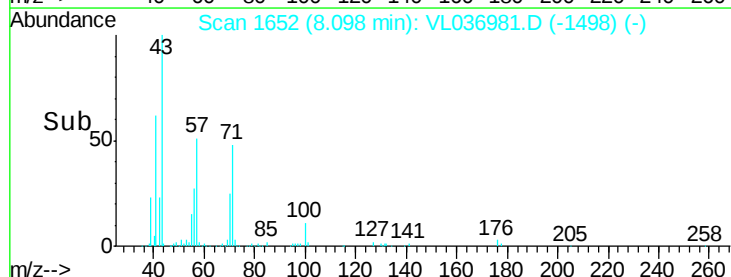
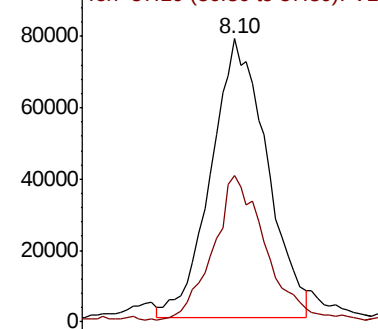
43 100

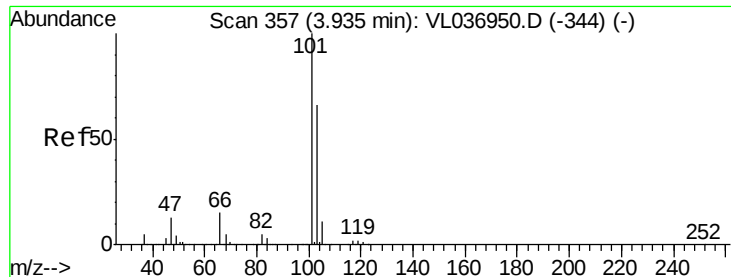
57 50.9 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





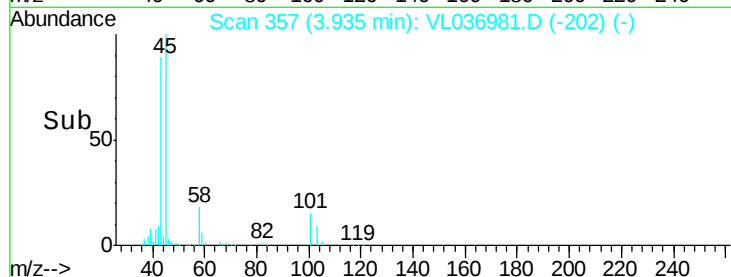
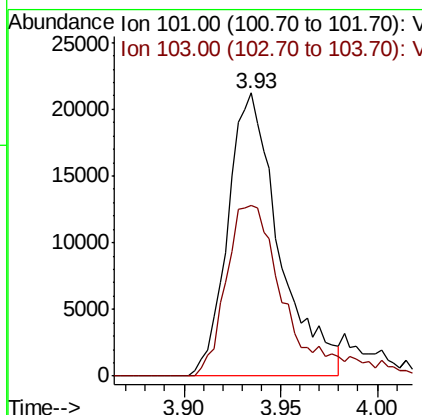
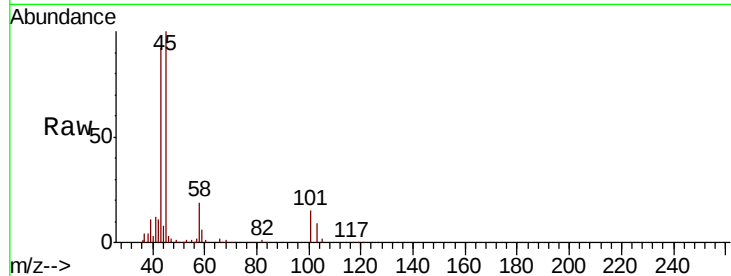
#11
Trichlorofluoromethane
Concen: 0.196 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.3	52.6	79.0

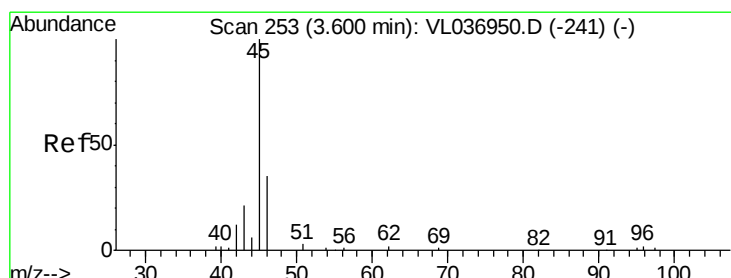
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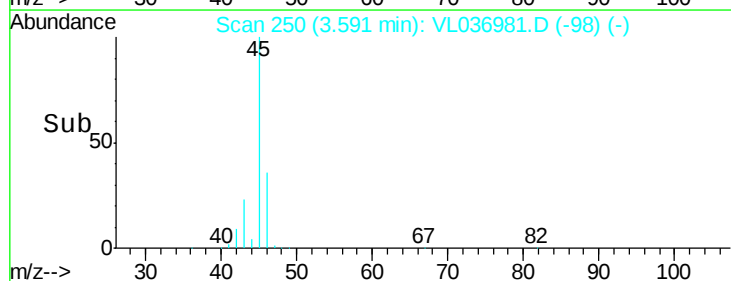
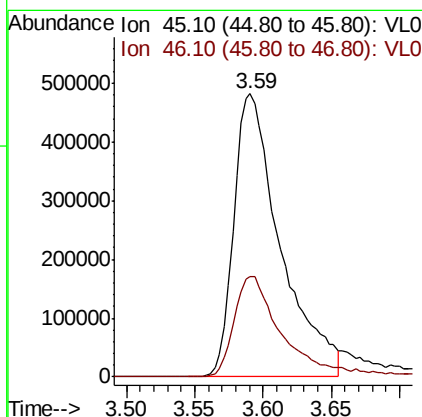
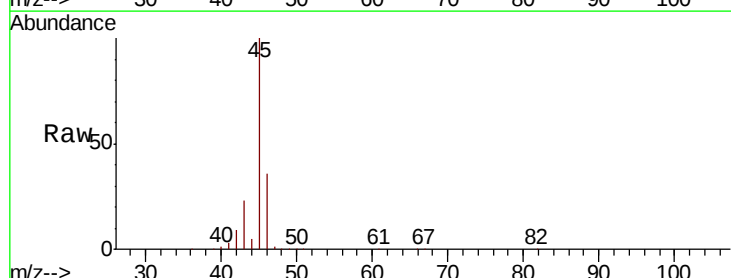
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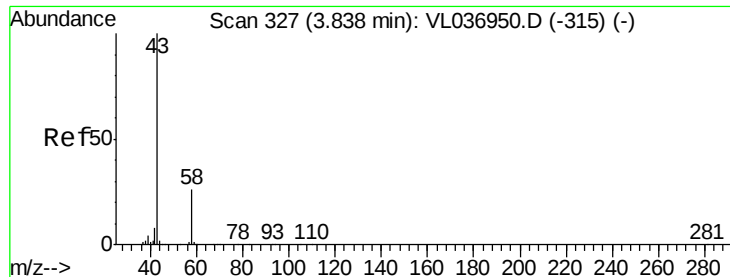
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#13
Ethanol
Concen: 102.165 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.8	16.3	65.3





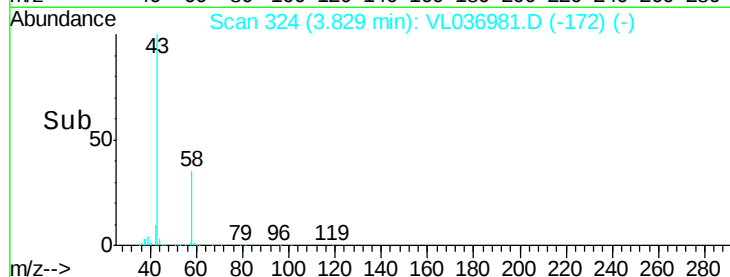
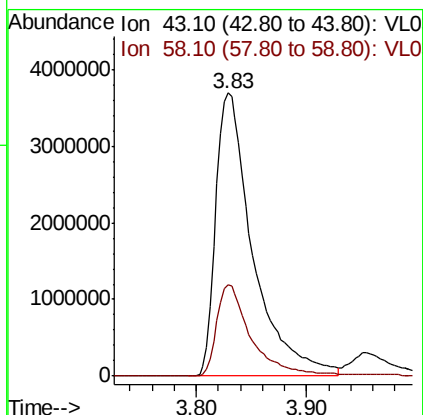
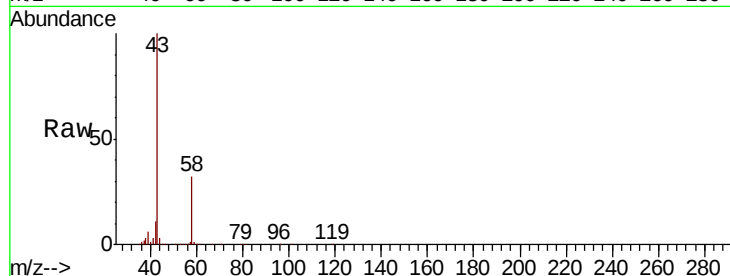
#15
Acetone
Concen: 65.846 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 43 Resp: 8612828
Ion Ratio Lower Upper
43 100
58 31.4 24.0 36.0

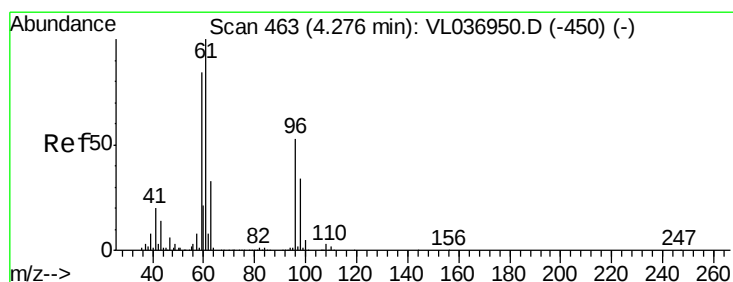
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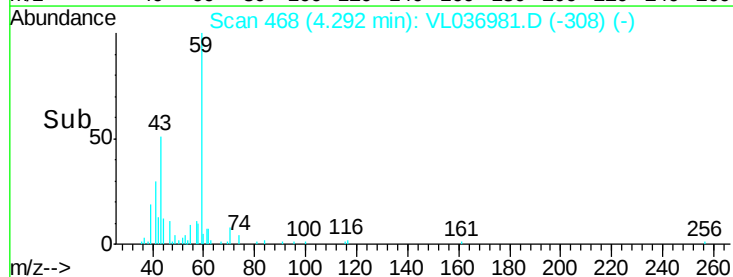
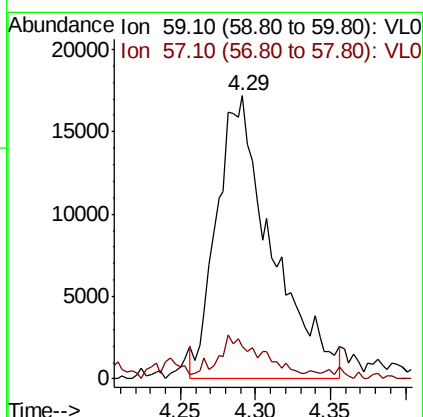
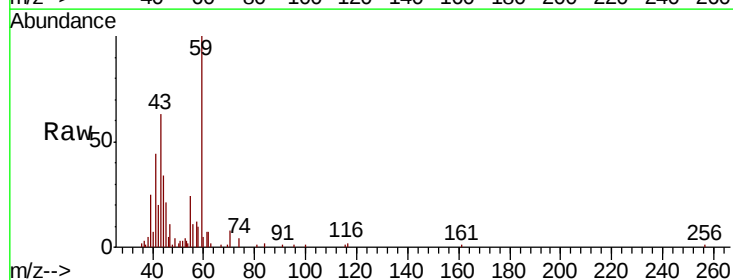
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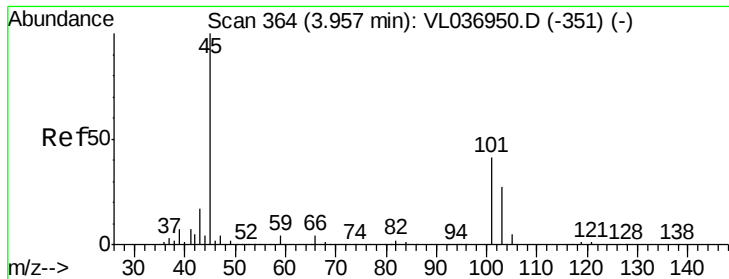
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#17
tert-Butyl alcohol
Concen: 0.364 ppbv m
RT: 4.29 min Scan# 468
Delta R.T. 0.02 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion: 59 Resp: 43577
Ion Ratio Lower Upper
59 100
57 16.9 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 33.576 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL036981.D

Acq: 18 May 2021 22:52

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 45 Resp: 2360816

Ion Ratio Lower Upper

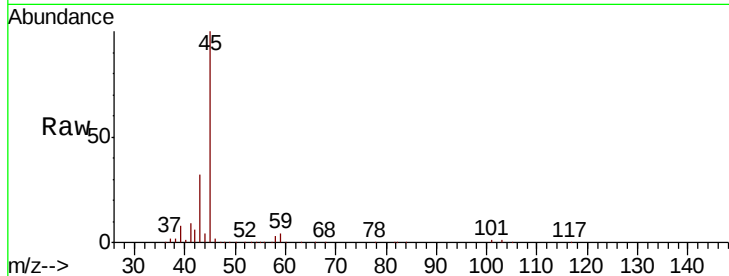
45 100

58 3.5 37.2 55.8#

Manual Integrations
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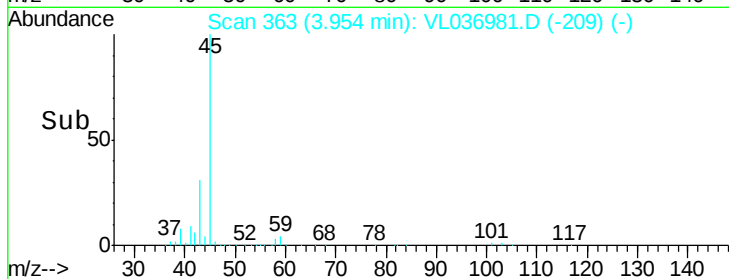
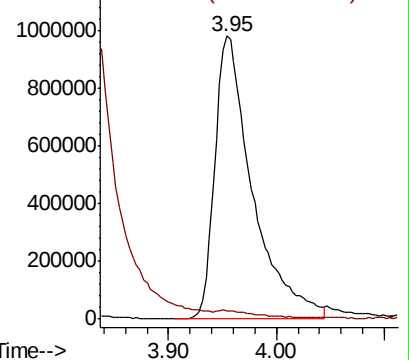
MMDadoda

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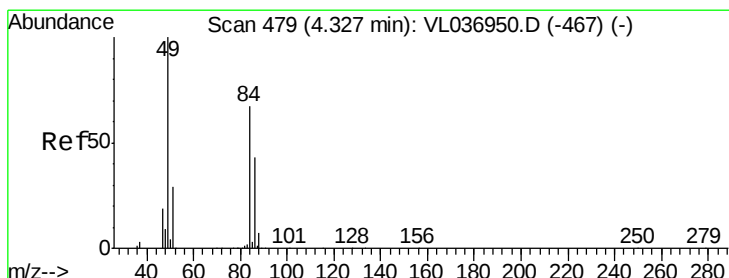
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



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#20

Methylene Chloride

Concen: 3.102 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036981.D

Acq: 18 May 2021 22:52

Tgt Ion: 84 Resp: 217532

Ion Ratio Lower Upper

84 100

49 153.4 119.8 179.6

51 42.3 35.1 52.7

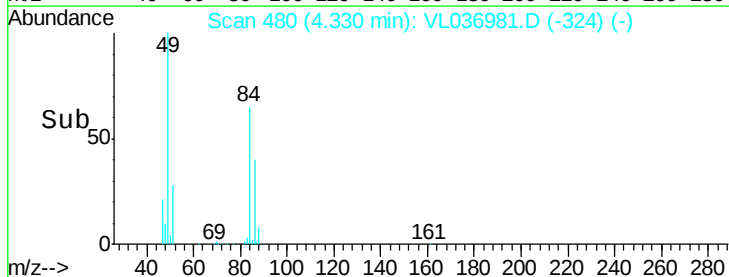
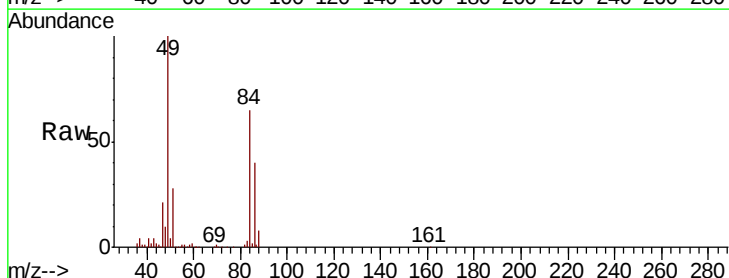
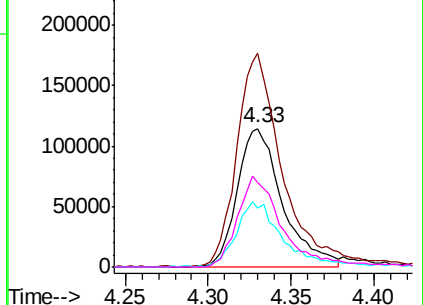
86 61.2 50.9 76.3

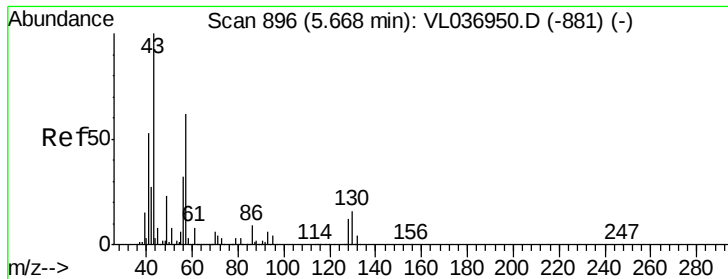
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





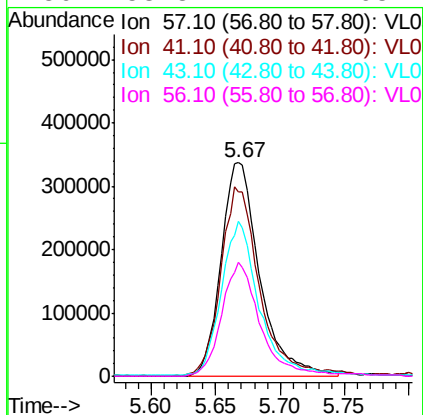
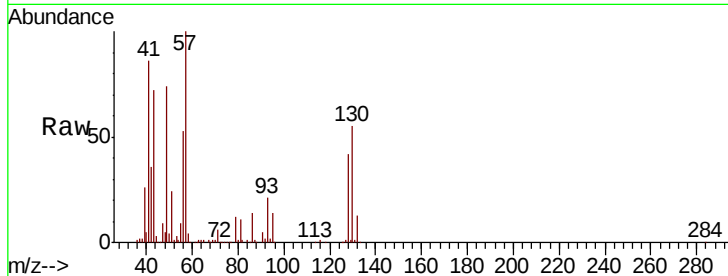
#26
Hexane
Concen: 4.351 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	57	Resp	698563
Ion Ratio	Lower	Upper	
57	100		
41	90.4	70.5	105.7
43	70.8	165.8	248.8#
56	53.8	42.2	63.4

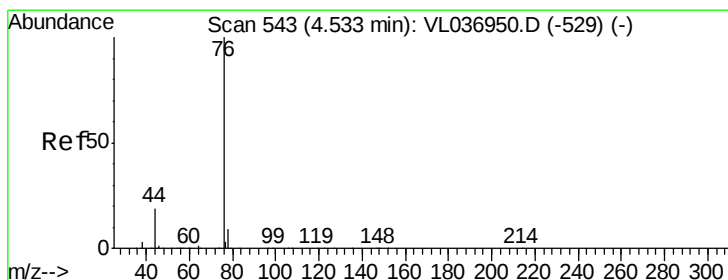
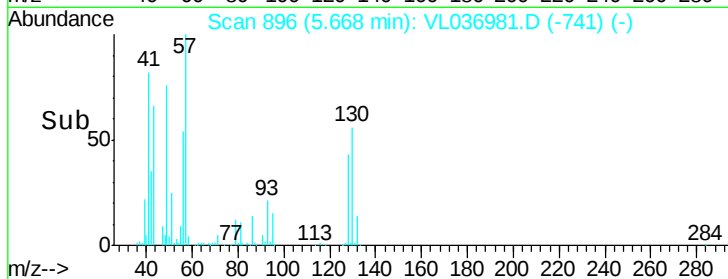
Manual Integrations
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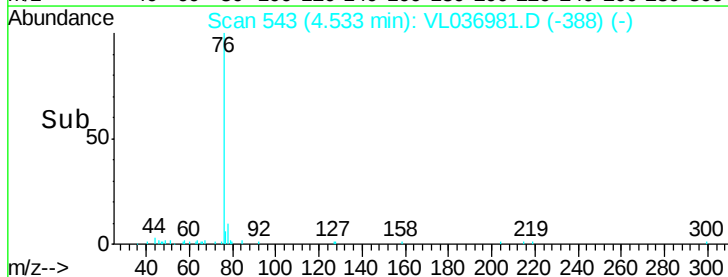
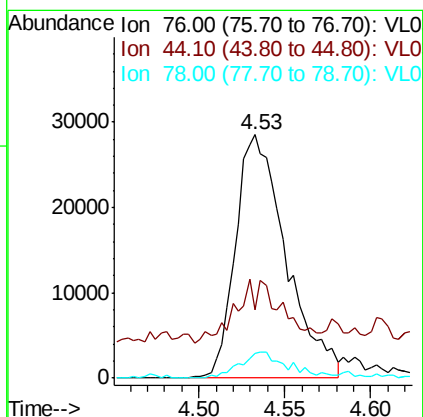
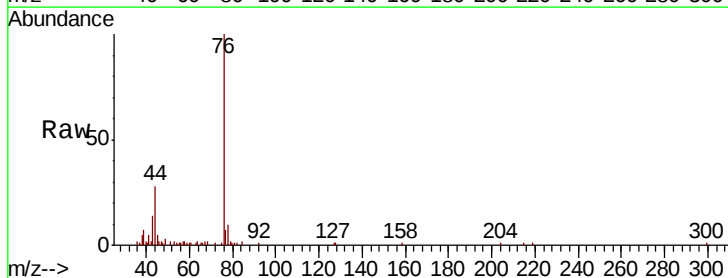
MMDadoda

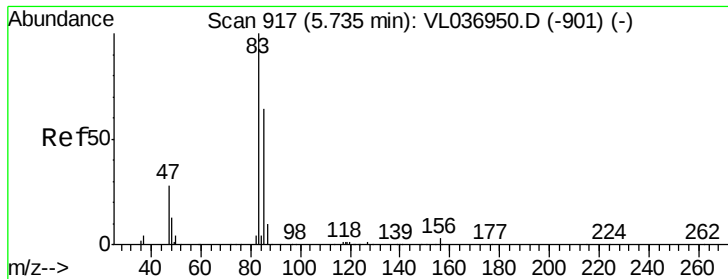
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#27
Carbon Disulfide
Concen: 0.360 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	76	Resp	58271
Ion Ratio	Lower	Upper	
76	100		
44	28.1	15.5	23.3#
78	11.8	7.8	11.6#





#29
Chloroform
Concen: 0.101 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

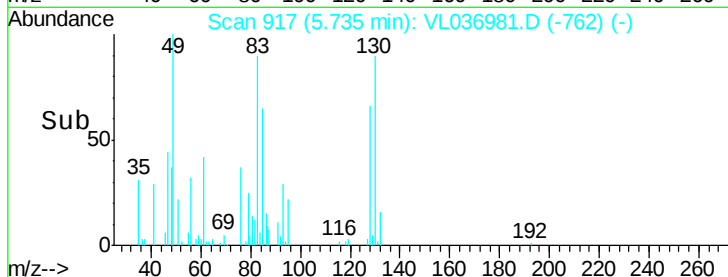
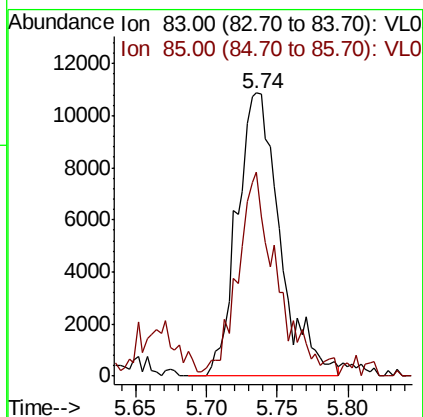
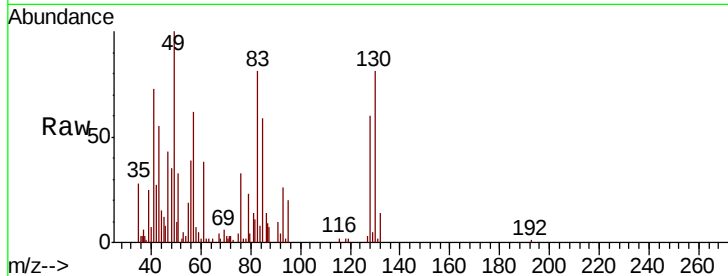
Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	83	Resp	22886
Ion Ratio	100	Lower	Upper
85	72.1	51.1	76.7

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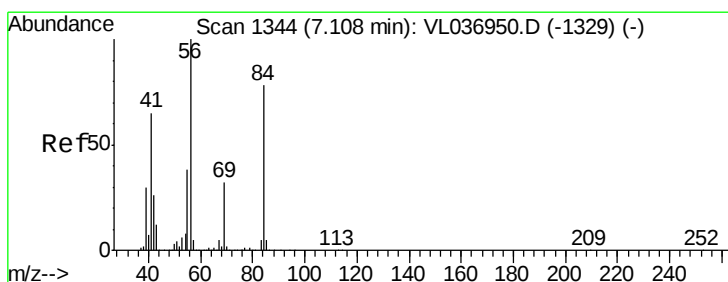
MMDadoda

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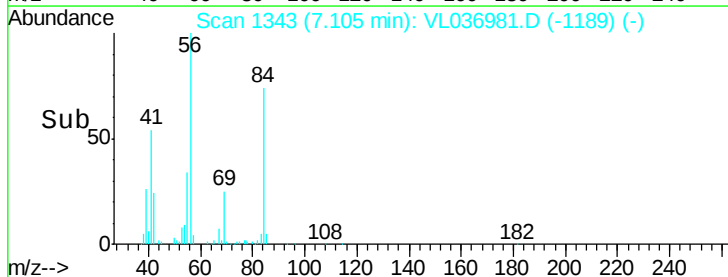
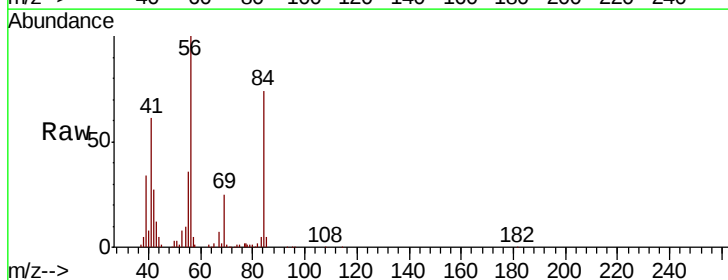
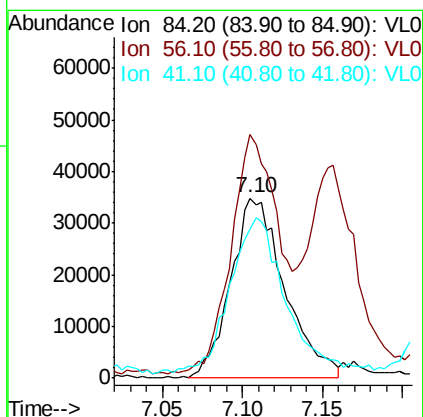
MMDadoda

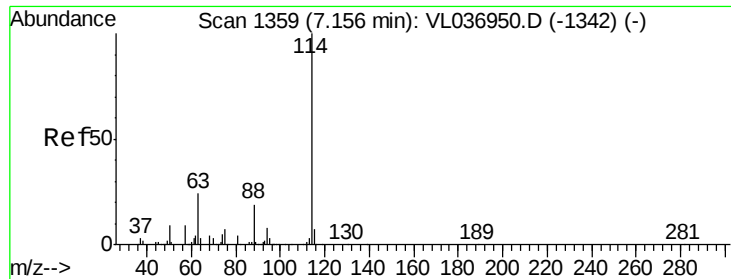
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#30
Cyclohexane
Concen: 0.584 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	84	Resp	79627
Ion Ratio	100	Lower	Upper
56	110.8	107.9	161.9
41	85.3	65.5	98.3





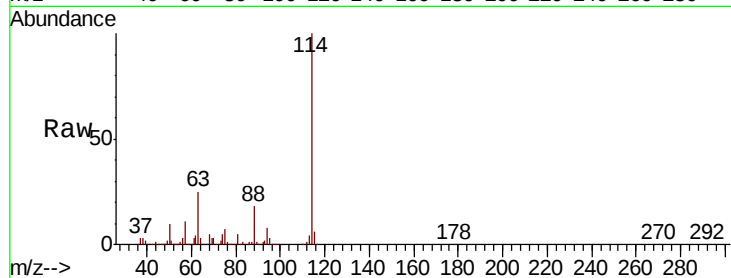
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL036981.D
 Acq: 18 May 2021 22:52

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

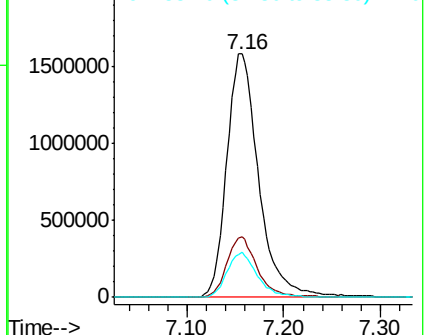
Tot Ion:	114	Resp:	3632946
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.6	29.4
88	17.8	14.6	21.8

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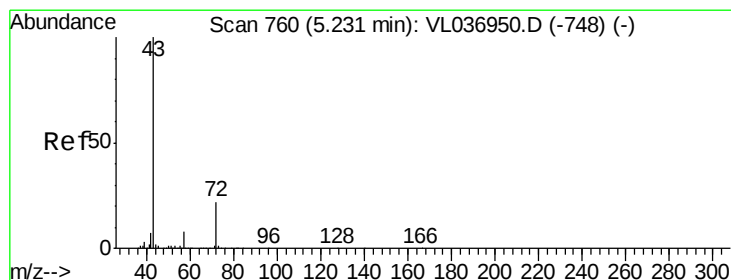
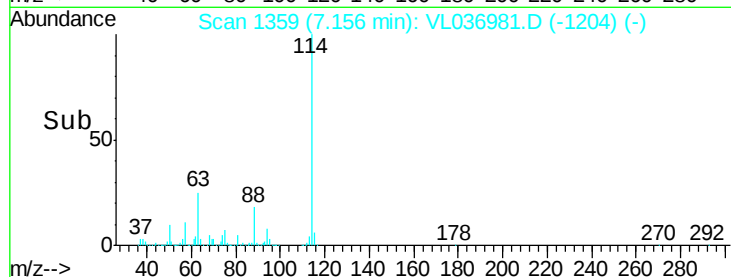
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



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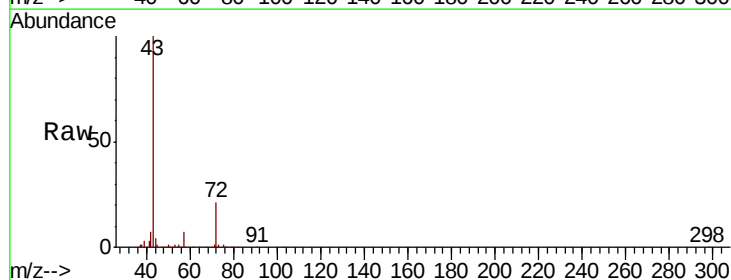
MM Dadoda

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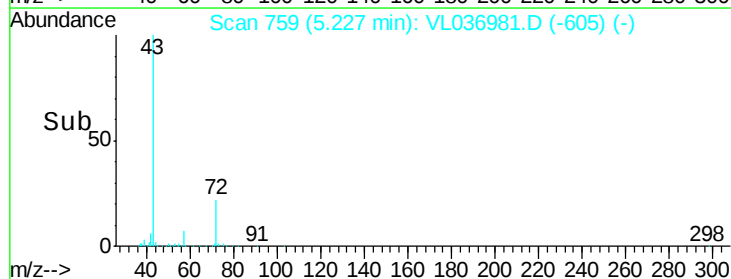
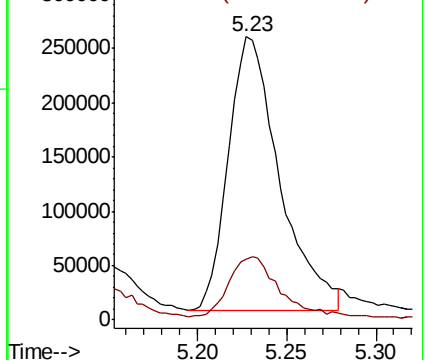


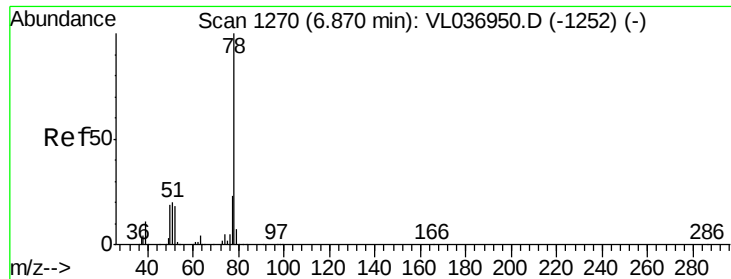
#34
 2-Butanone
 Concen: 3.827 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: VL036981.D
 Acq: 18 May 2021 22:52

Tgt Ion:	43	Resp:	506239
Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.0	28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





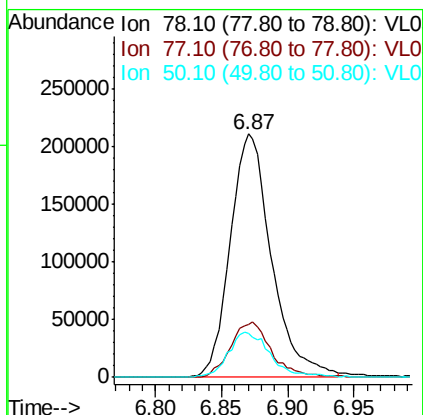
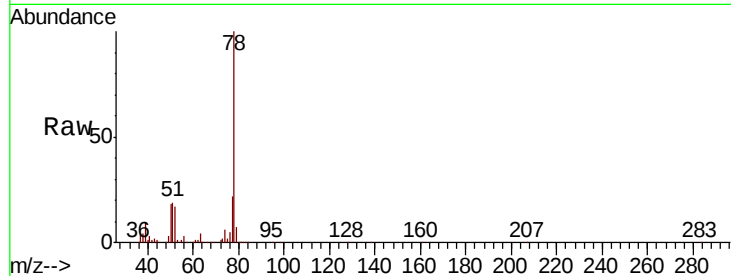
#36
Benzene
Concen: 1.463 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	78	Resp	457911
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.6	28.0
50	17.5	15.0	22.4

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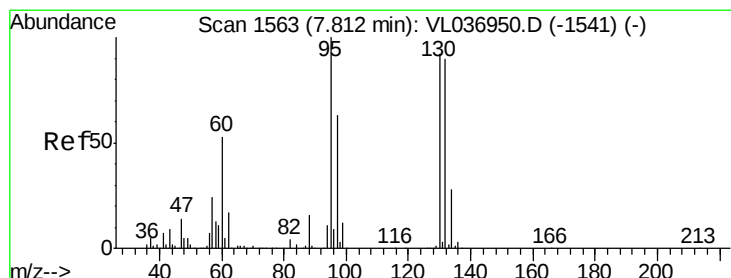
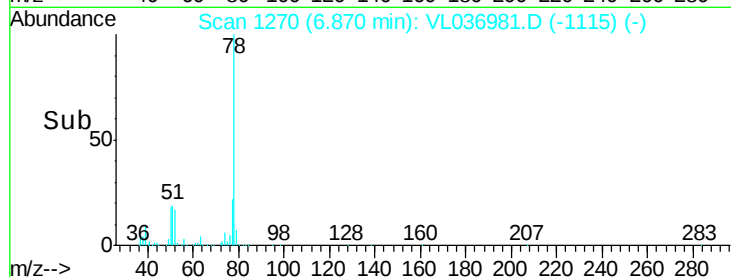
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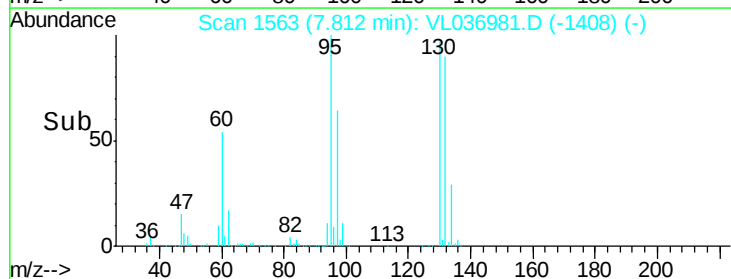
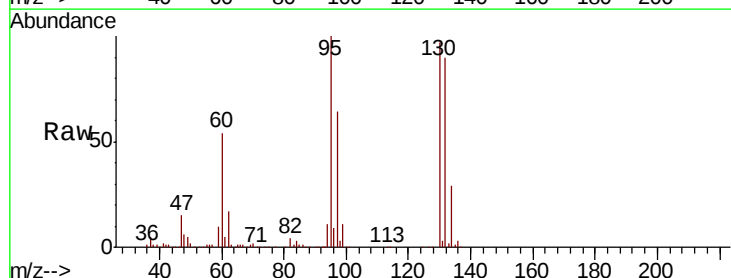
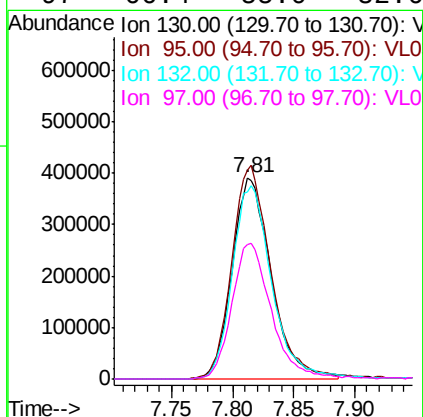
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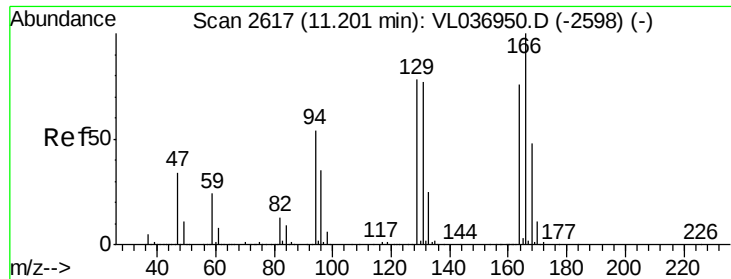
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#38
Trichloroethene
Concen: 6.499 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	130	Resp	869956
Ion	Ratio	Lower	Upper
130	100		
95	103.6	86.9	130.3
132	92.9	78.4	117.6
97	66.4	55.0	82.6





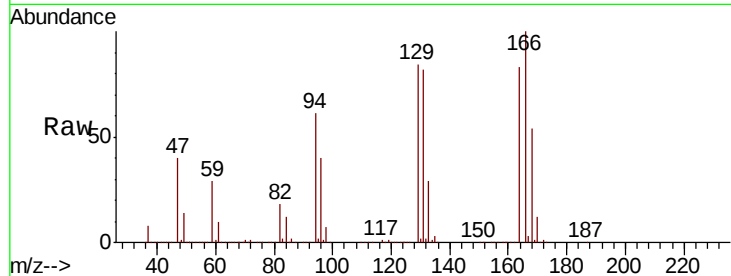
#52
Tetrachloroethene
Concen: 60.041 ppbv
RT: 11.21 min Scan# 2620
Delta R.T. 0.01 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
164	100		
166	119.8	105.5	158.3
129	101.0	81.8	122.8
131	97.7	81.2	121.8

Manual Integrations
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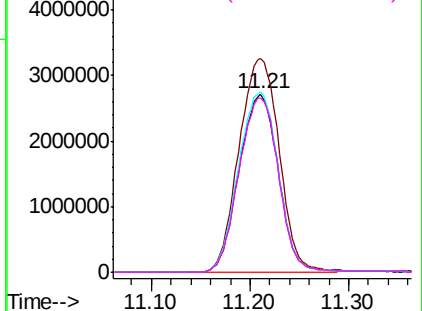
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

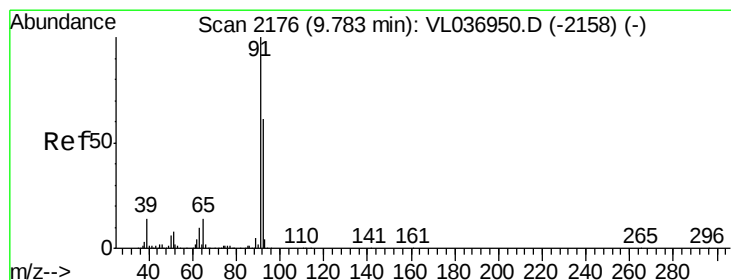
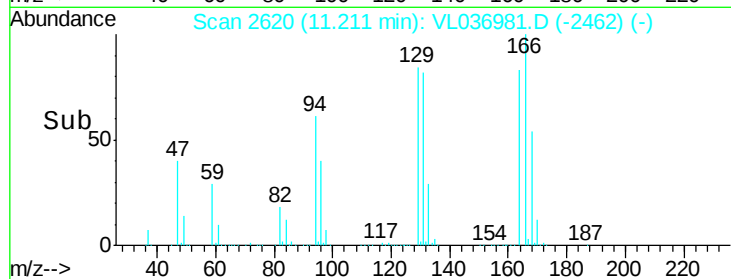
Ion 131.00 (130.70 to 131.70): V



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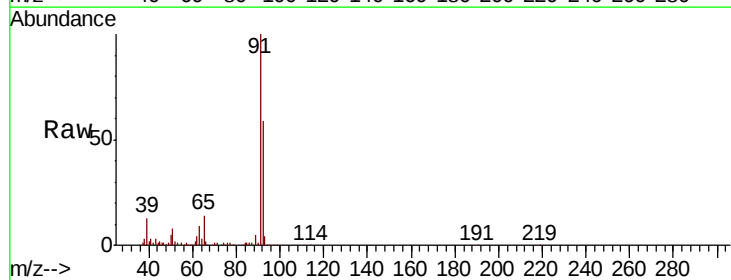
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#53
Toluene
Concen: 1.293 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

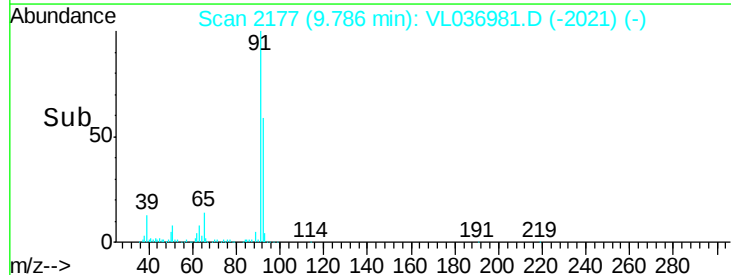
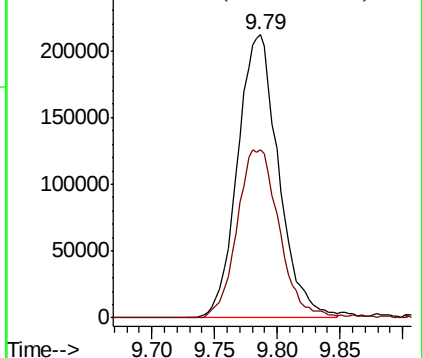
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.6	49.5	74.3

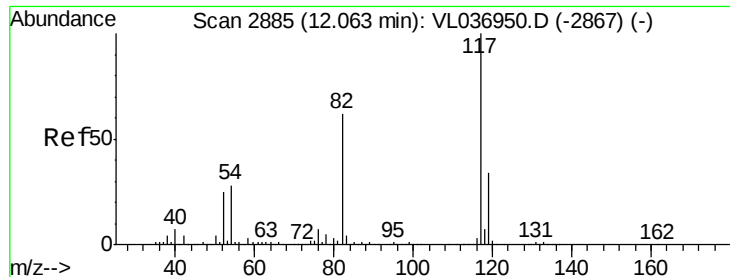


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





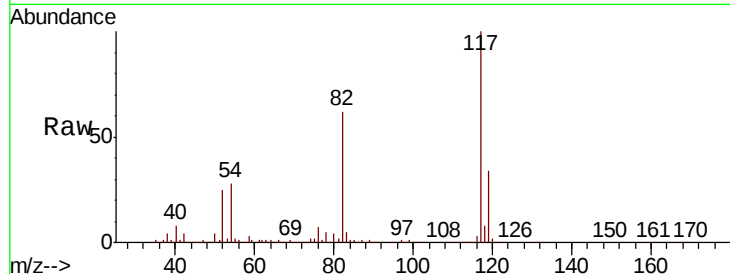
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

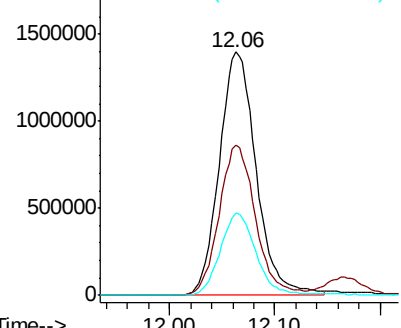
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.8	52.6	79.0
119	33.4	46.6	70.0

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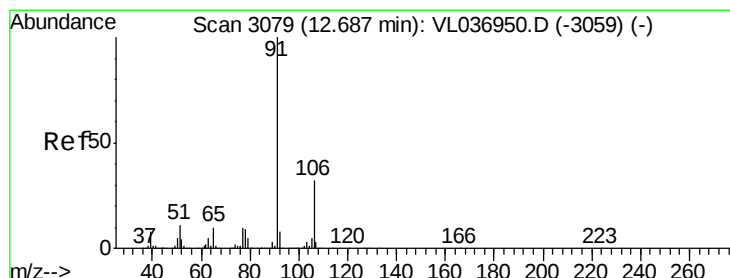
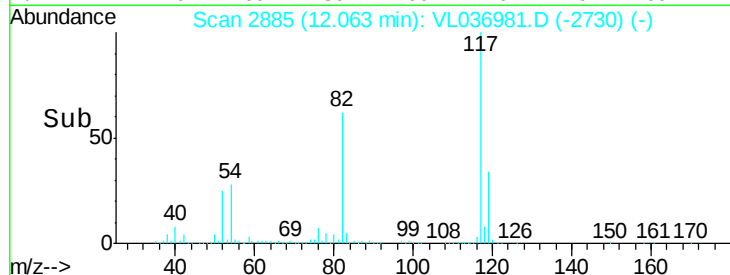
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



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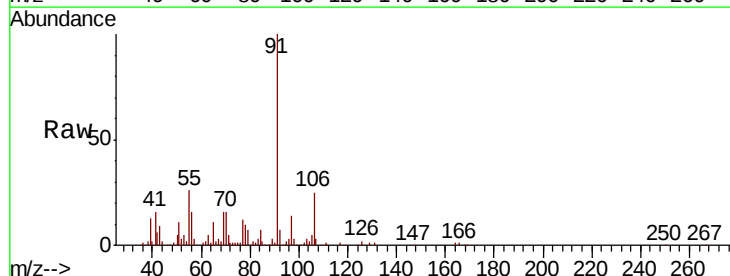
MMDadoda

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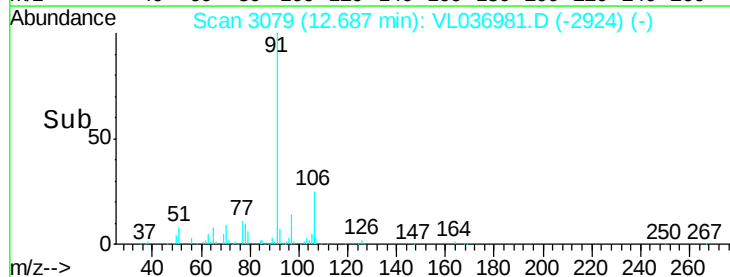
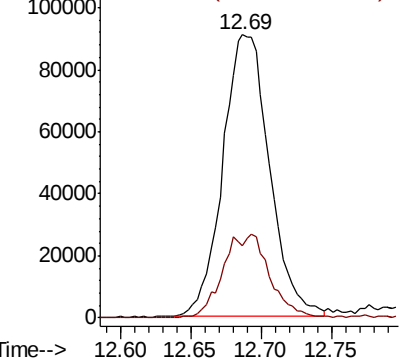


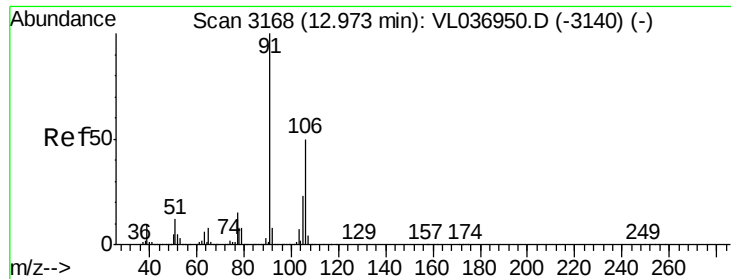
#58
Ethyl Benzene
Concen: 0.439 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.4	25.6	38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





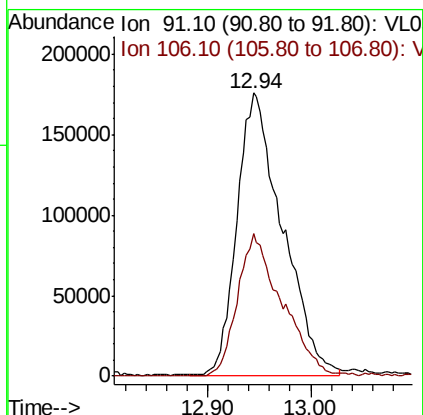
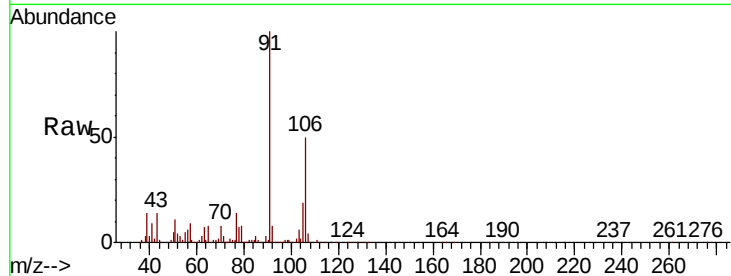
#59
m/p-Xylene
Concen: 1.368 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

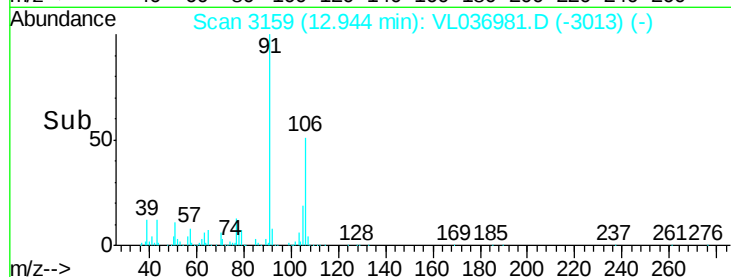
Tot Ion: 91 Resp: 542274
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

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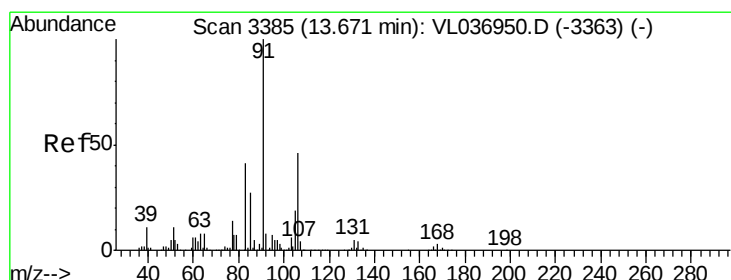


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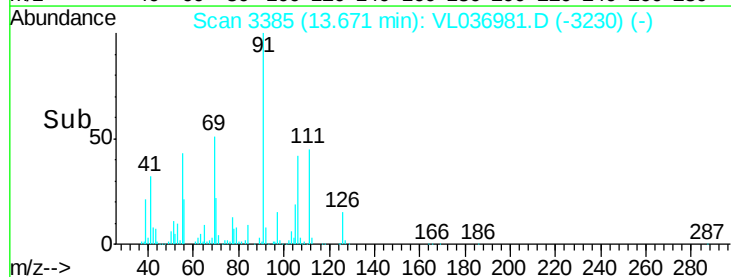
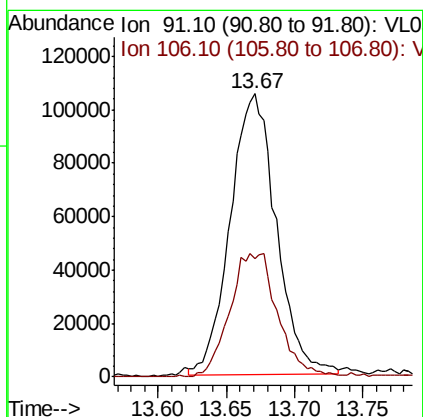
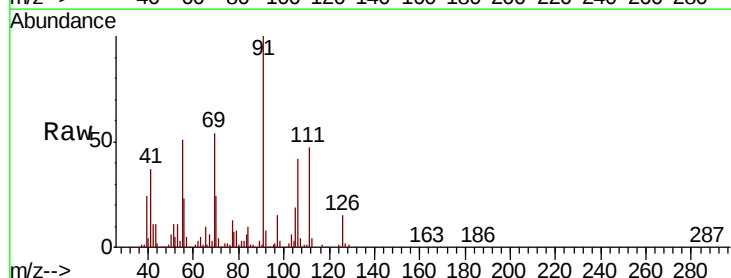
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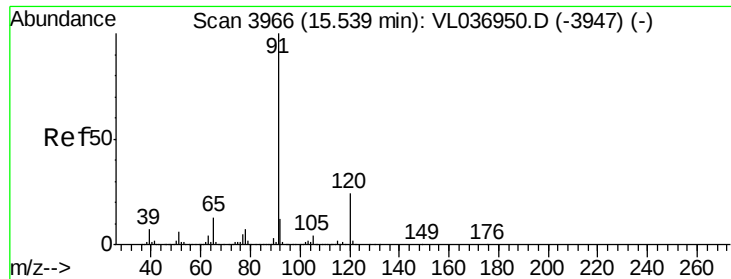
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#60
o-Xylene
Concen: 0.651 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion: 91 Resp: 246028
Ion Ratio Lower Upper
91 100
106 45.9 23.4 70.3





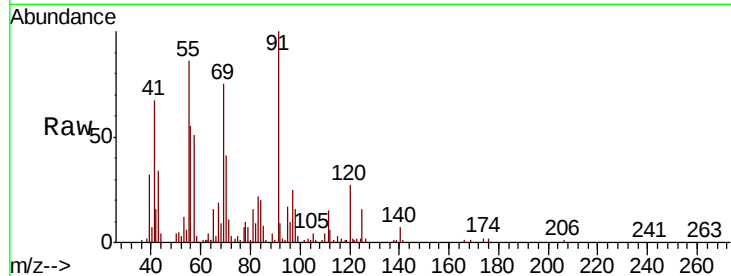
#64
n-propylbenzene
Concen: 0.197 ppbv
RT: 15.54 min Scan# 3965
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

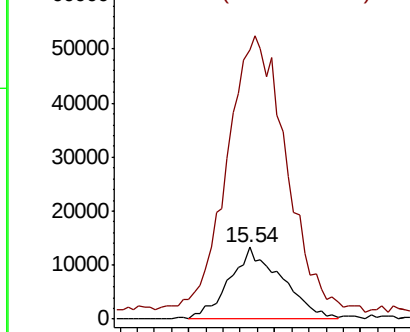
Tot Ion:120 Resp: 27541
Ion Ratio Lower Upper
120 100
91 485.7 343.8 515.6

Manual Integrations
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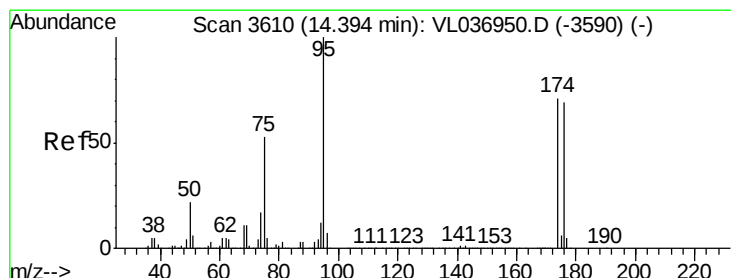
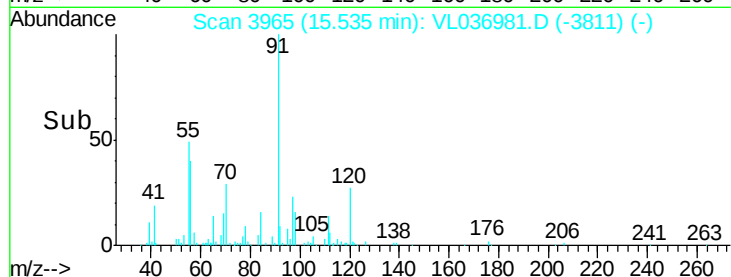
Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0



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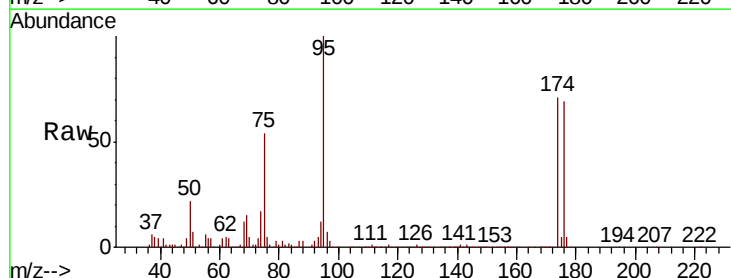
MMDadoda

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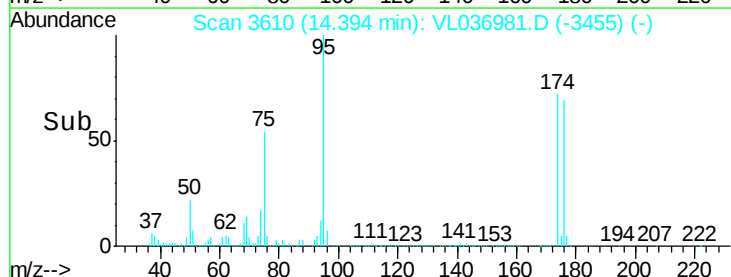
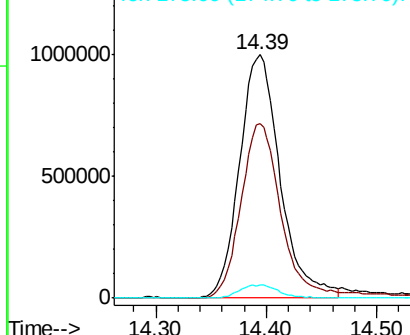


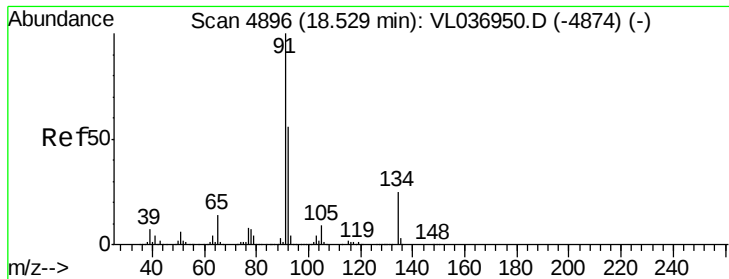
#68
1-Bromo-4-Fluorobenzene
Concen: 9.960 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion: 95 Resp: 2541293
Ion Ratio Lower Upper
95 100
174 74.5 58.4 87.6
175 5.7 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





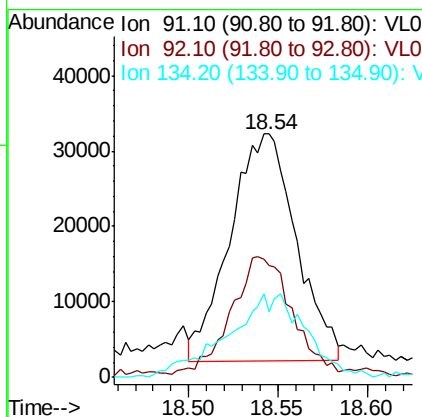
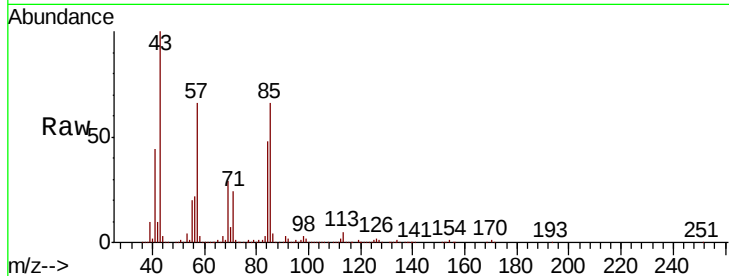
#70
n-Butylbenzene
Concen: 0.143 ppbv
RT: 18.54 min Scan# 4901
Delta R.T. 0.02 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
91	100		
92	48.7	44.6	66.8
134	43.9	20.2	30.2

Manual Integrations
APPROVED

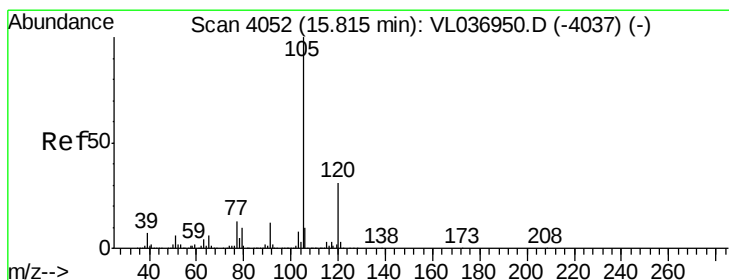
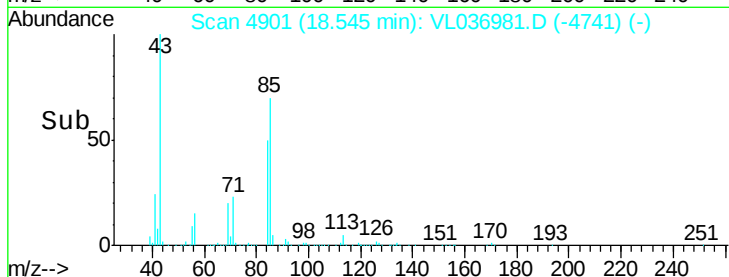
MMDadoda



5/20/2021 5:56:14 PM

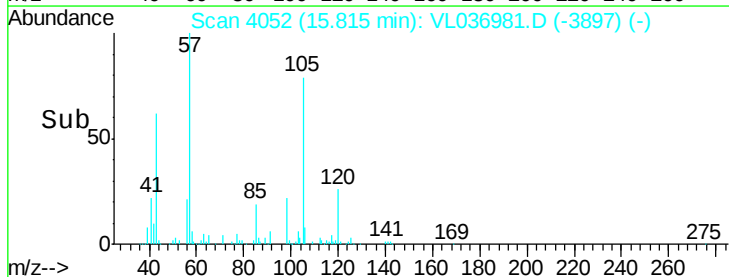
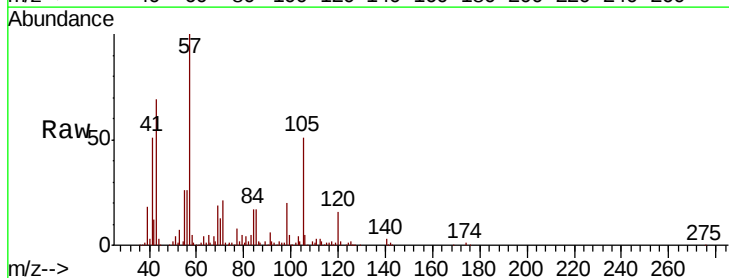
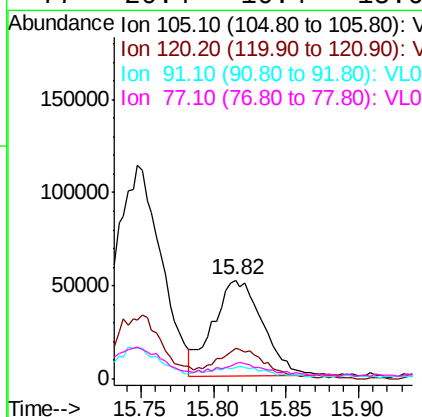
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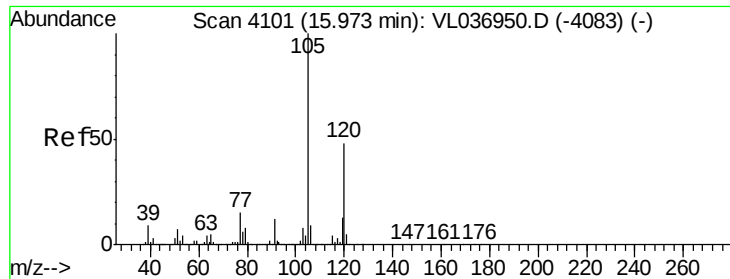
5/20/2021 5:56:14 PM



#72
4-Ethyltoluene
Concen: 0.273 ppbv
RT: 15.82 min Scan# 4052
Delta R.T. -0.00 min
Lab File: VL036981.D
Acq: 18 May 2021 22:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.5	24.6	37.0
91	10.9	9.8	14.6
77	20.4	10.4	15.6





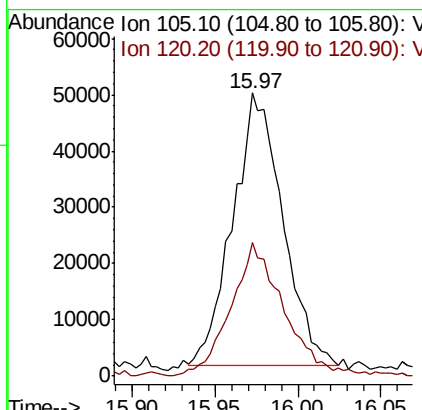
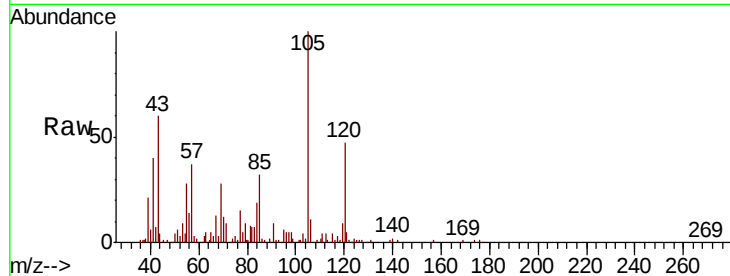
#73
 1,3,5-Trimethylbenzene
 Concen: 0.242 ppbv
 RT: 15.97 min Scan# 4101
 Delta R.T. -0.00 min
 Lab File: VL036981.D
 Acq: 18 May 2021 22:52

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.1	38.6	58.0

Manual Integrations
 APPROVED

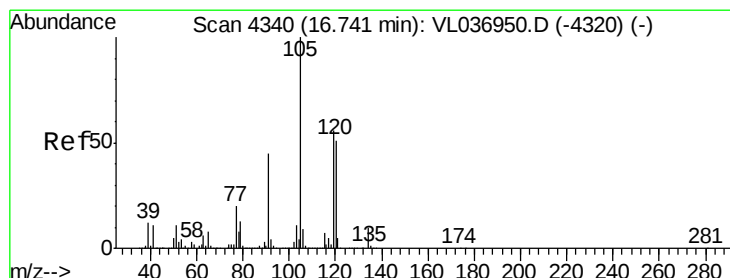
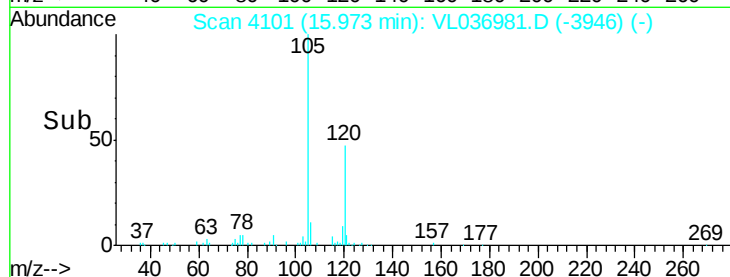
MMDadoda



5/20/2021 5:56:14 PM

MMDadoda

5/20/2021 5:56:14 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.797 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.00 min
 Lab File: VL036981.D
 Acq: 18 May 2021 22:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.4	40.6	61.0
91	9.3	37.4	56.0#
77	12.9	16.2	24.4#

