

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036520.D
 Acq On : 26 Mar 2021 19:12
 Operator : SY/AP
 Sample : M1760-15
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Manual Integrations
 APPROVED

MMDadoda
 3/29/2021 4:39:30 PM

Quant Time: Mar 28 21:16:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 28 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1448998	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3246941	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3100524	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2417875	9.78	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	50770	0.215	ppbv	100
4) Chloromethane	3.15	50	629742	6.586	ppbv	99
6) Bromomethane	3.48	94	6510m	0.120	ppbv	
7) Chloroethane	3.57	64	14615	0.433	ppbv #	87
9) Propene	3.02	41	110480	1.280	ppbv	88
11) Trichlorofluoromethane	3.96	101	58910m	0.245	ppbv	
13) Ethanol	3.62	45	4457841	433.741	ppbv	94
15) Acetone	3.86	43	1902916	13.343	ppbv	96
17) tert-Butyl alcohol	4.32	59	91131	0.734	ppbv #	87
19) Isopropyl Alcohol	3.99	45	1307230	16.663	ppbv	98
20) Methylene Chloride	4.36	84	122941m	1.841	ppbv	
23) Vinyl Acetate	5.08	43	389445	1.596	ppbv #	94
25) Ethyl Acetate	5.69	43	1244650	3.671	ppbv	97
26) Hexane	5.70	57	484247m	3.078	ppbv	
29) Chloroform	5.76	83	146674	0.583	ppbv #	80
31) cis-1,2-Dichloroethene	5.56	61	211120	1.387	ppbv	94
32) 1,1,1-Trichloroethane	6.53	97	24132m	0.095	ppbv	
34) 2-Butanone	5.26	43	252476	1.593	ppbv	95
35) Carbon Tetrachloride	7.03	117	19861m	0.080	ppbv	
36) Benzene	6.90	78	85228m	0.285	ppbv	
38) Trichloroethene	7.85	130	783066	6.719	ppbv	98
51) 2-Hexanone	10.16	43	68583m	0.593	ppbv	
52) Tetrachloroethene	11.24	164	10250m	0.093	ppbv	
53) Toluene	9.82	91	357860	1.122	ppbv	100
59) m/p-Xylene	12.99	91	118756m	0.302	ppbv	
60) o-Xylene	13.71	91	54840m	0.144	ppbv	
61) Styrene	13.54	104	51706m	0.270	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	70182	0.169	ppbv #	67
76) 1,4-Dichlorobenzene	17.16	146	105460m	0.453	ppbv	

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

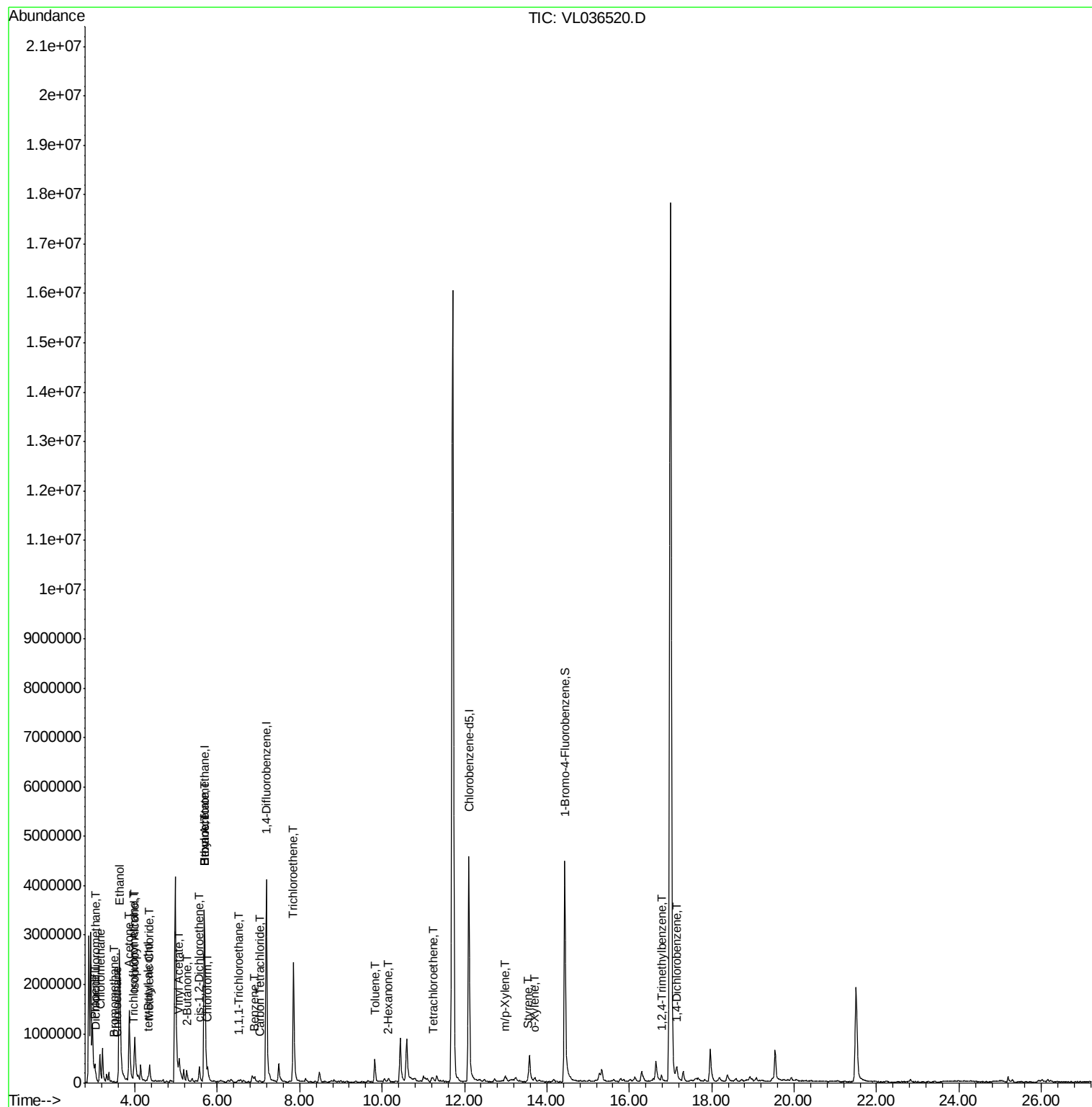
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036520.D
Acq On : 26 Mar 2021 19:12
Operator : SY/AP
Sample : M1760-15
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

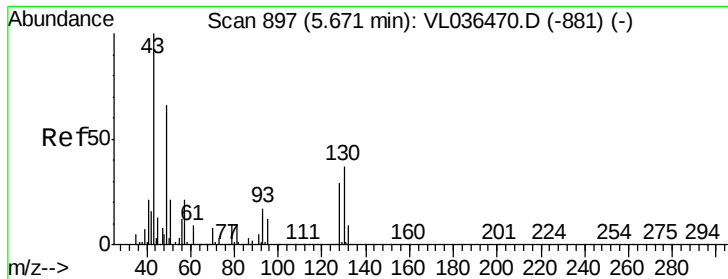
Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Manual Integrations
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Quant Time: Mar 28 21:16:16 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL036520.D

Acq: 26 Mar 2021 19:12

Instrument :

MSVOA_L

ClientSampleId :

SS-2-MUSIC-RM

Tot Ion: 49 Resp: 1448998

Ion Ratio Lower Upper

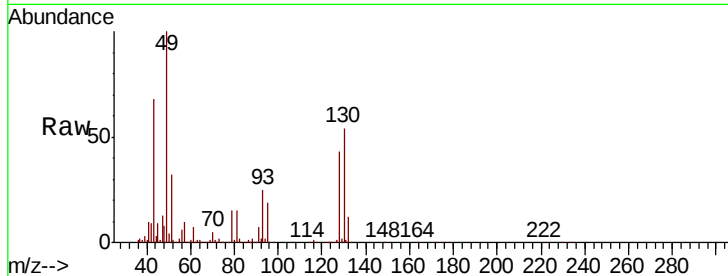
49 100

128 43.9 23.5 70.6

130 56.2 29.1 87.4

Manual Integrations
APPROVED

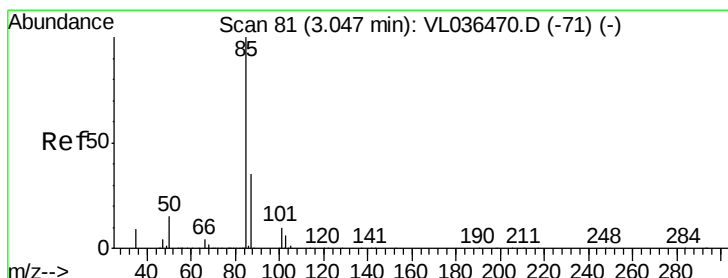
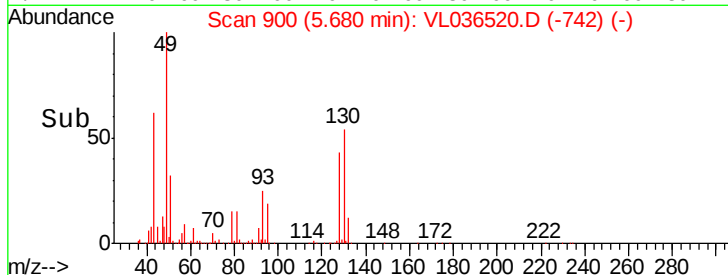
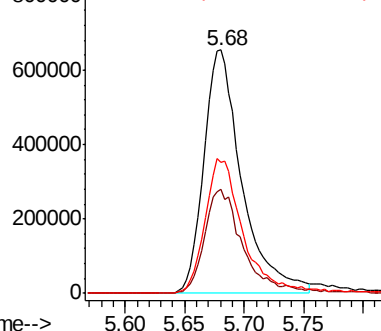
MMDadoda
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.215 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036520.D

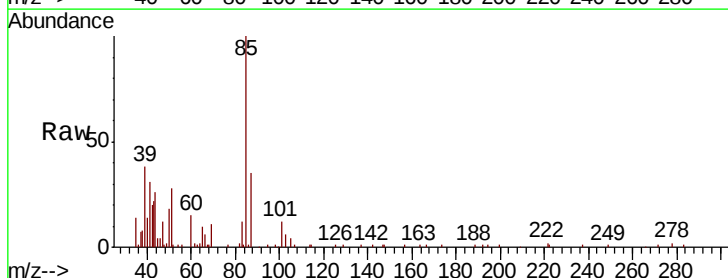
Acq: 26 Mar 2021 19:12

Tgt Ion: 85 Resp: 50770

Ion Ratio Lower Upper

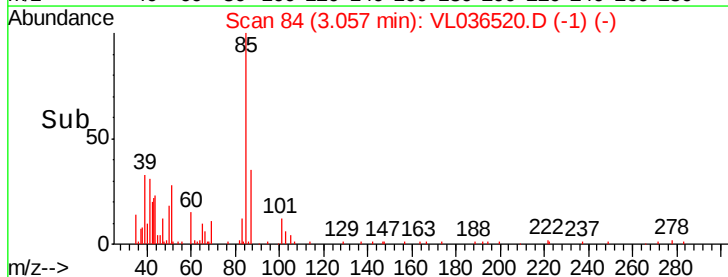
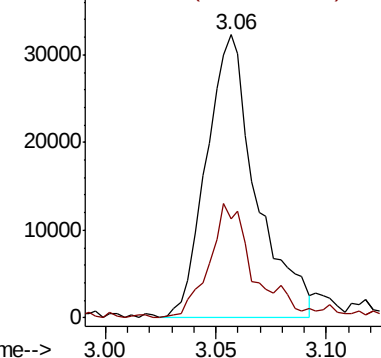
85 100

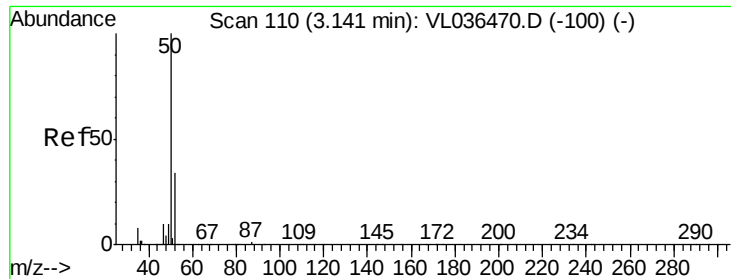
87 35.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 6.586 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036520.D

Acq: 26 Mar 2021 19:12

Instrument :

MSVOA_L

ClientSampleId :

SS-2-MUSIC-RM

Tot Ion: 50 Resp: 629742

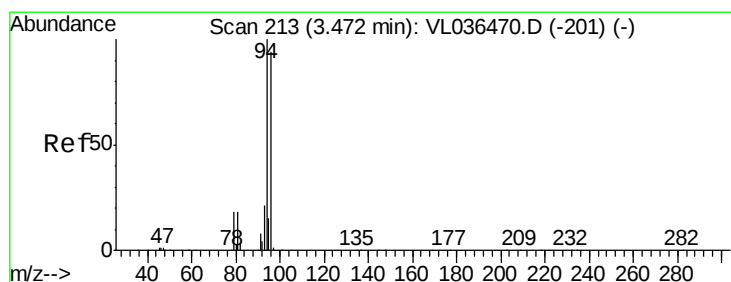
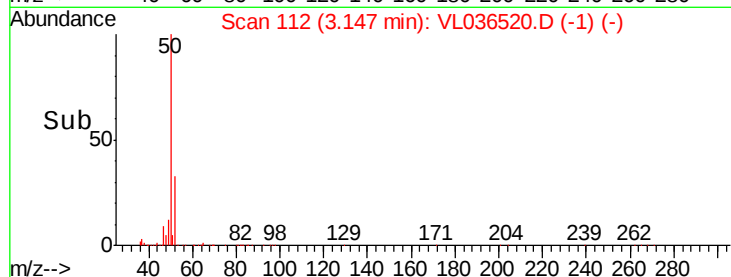
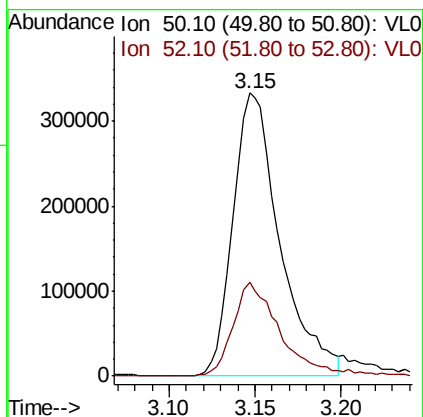
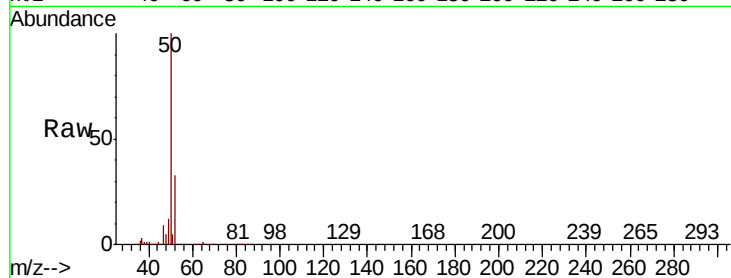
Ion Ratio Lower Upper

50 100

52 33.2 27.0 40.6

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#6

Bromomethane

Concen: 0.120 ppbv m

RT: 3.48 min Scan# 217

Delta R.T. 0.01 min

Lab File: VL036520.D

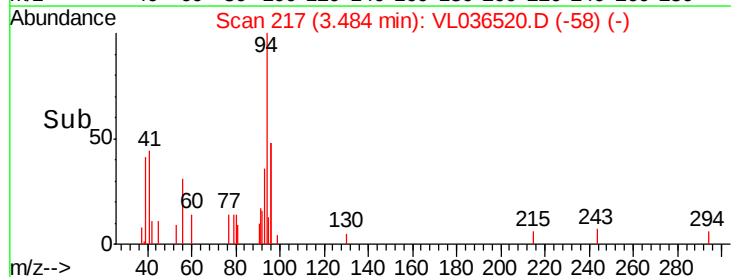
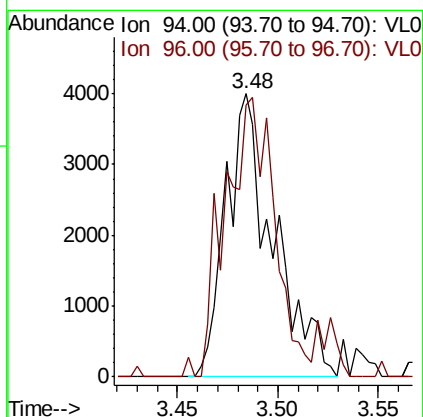
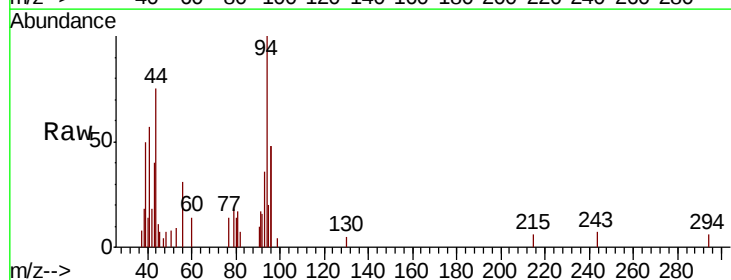
Acq: 26 Mar 2021 19:12

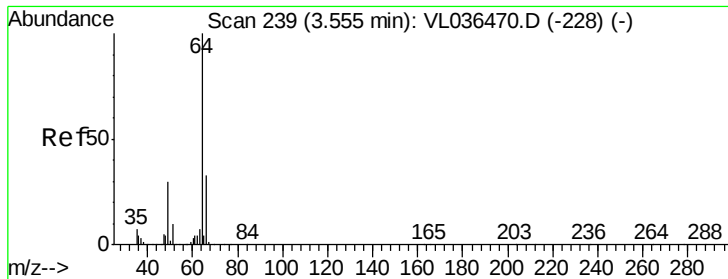
Tgt Ion: 94 Resp: 6510

Ion Ratio Lower Upper

94 100

96 48.3 74.9 112.3#





#7

Chloroethane

Concen: 0.433 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.01 min

Lab File: VL036520.D

Acq: 26 Mar 2021 19:12

Instrument :

MSVOA_L

ClientSampled :

SS-2-MUSIC-RM

Tot Ion: 64 Resp: 14615

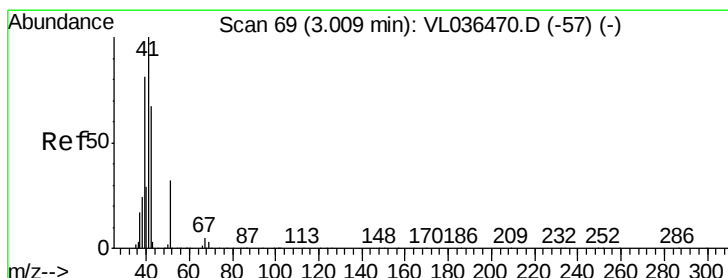
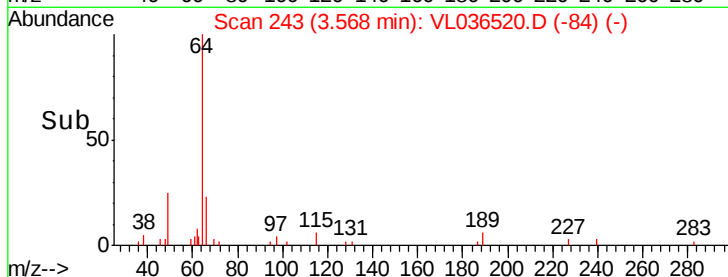
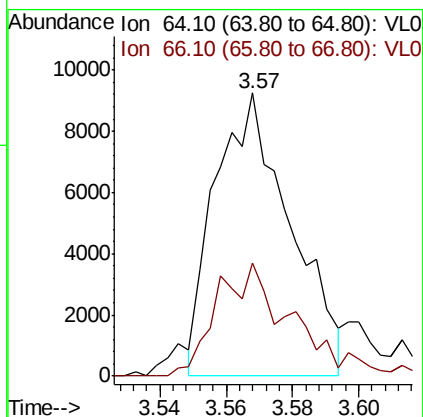
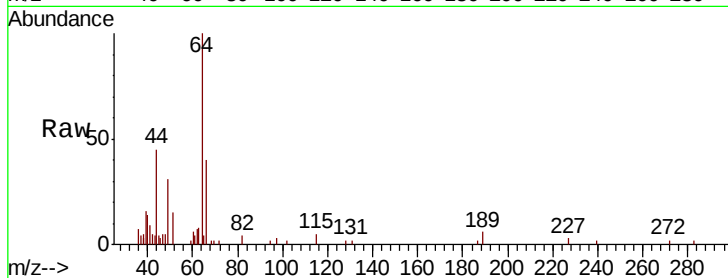
Ion Ratio Lower Upper

64 100

66 40.0 26.2 39.2#

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#9

Propene

Concen: 1.280 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036520.D

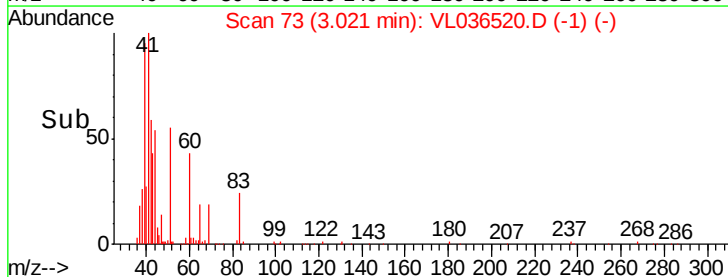
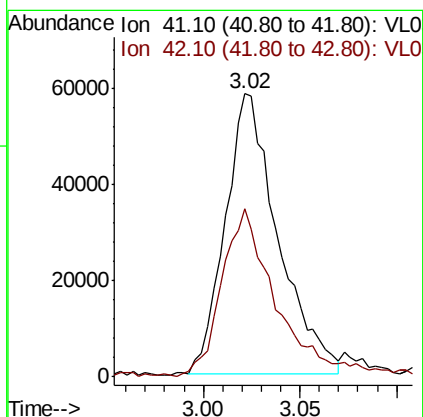
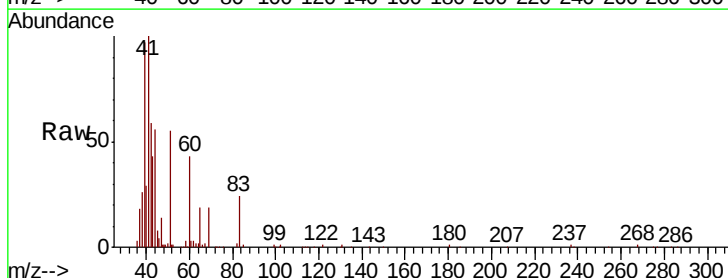
Acq: 26 Mar 2021 19:12

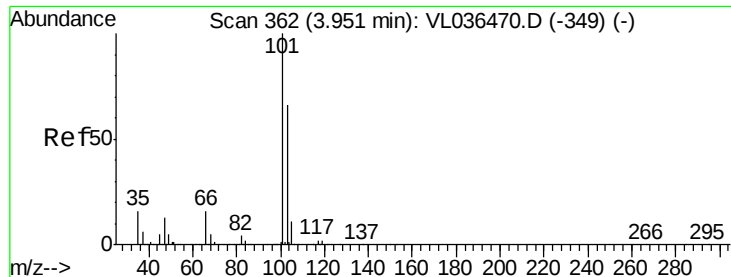
Tgt Ion: 41 Resp: 110480

Ion Ratio Lower Upper

41 100

42 61.2 57.0 85.4





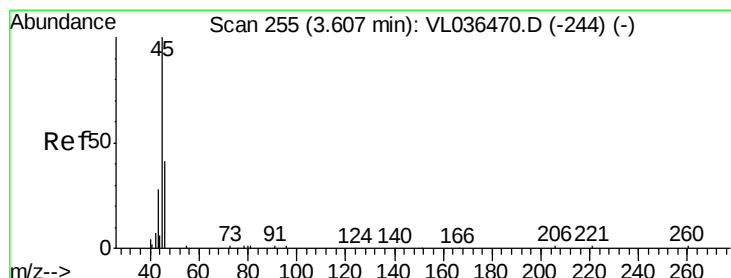
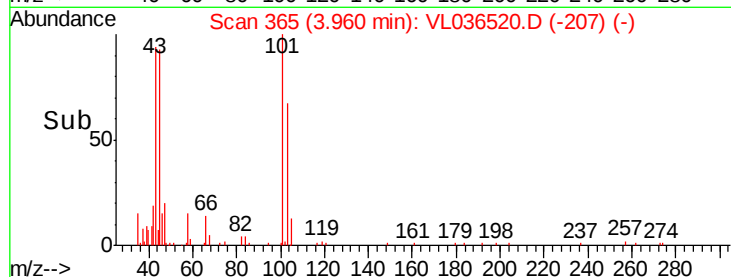
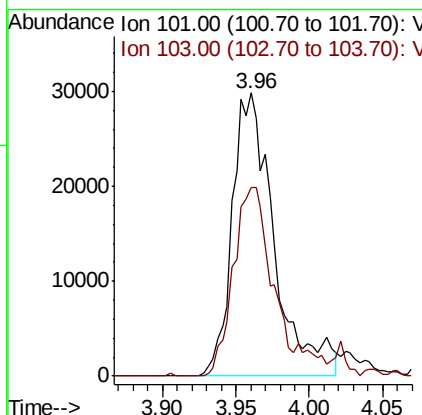
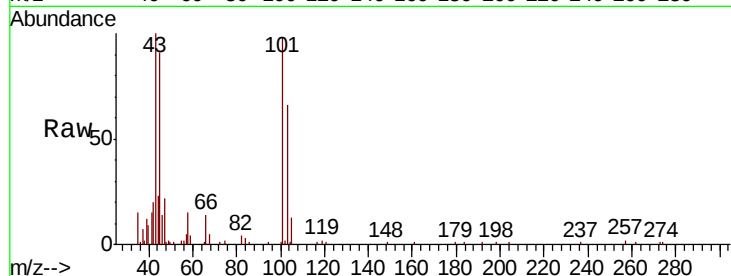
#11
Trichlorofluoromethane
Concen: 0.245 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	66.9	52.5	78.7	

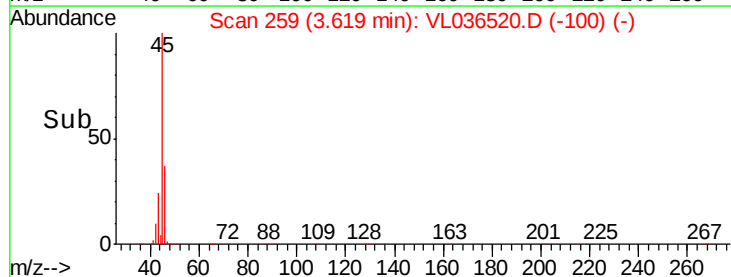
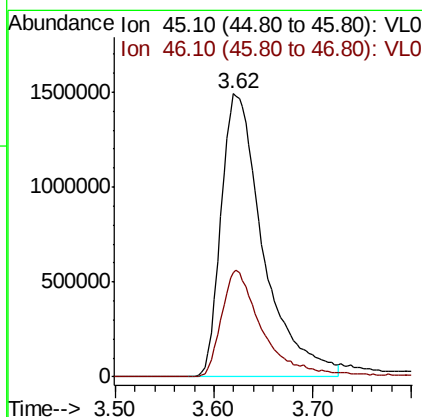
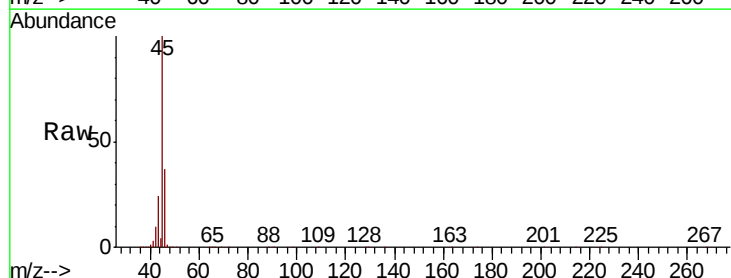
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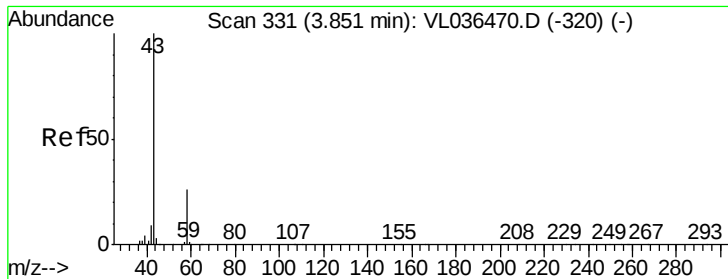
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#13
Ethanol
Concen: 433.741 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.9	16.6	66.2	





#15

Acetone

Concen: 13.343 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL036520.D

Acq: 26 Mar 2021 19:12

Instrument :

MSVOA_L

ClientSampleId :

SS-2-MUSIC-RM

Tot Ion: 43 Resp: 1902916

Ion Ratio Lower Upper

43 100

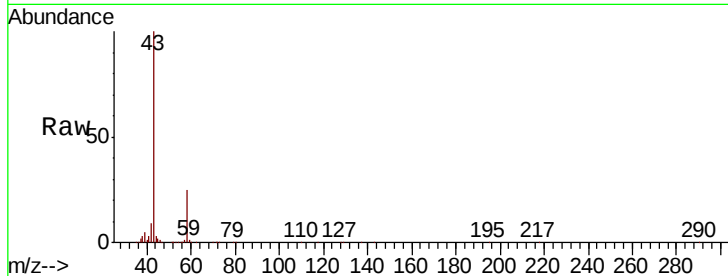
58 28.8 21.2 31.8

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

1000000

800000

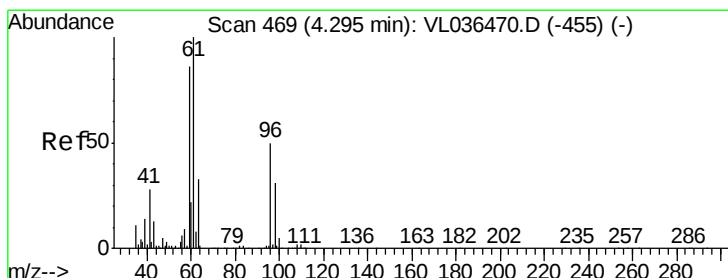
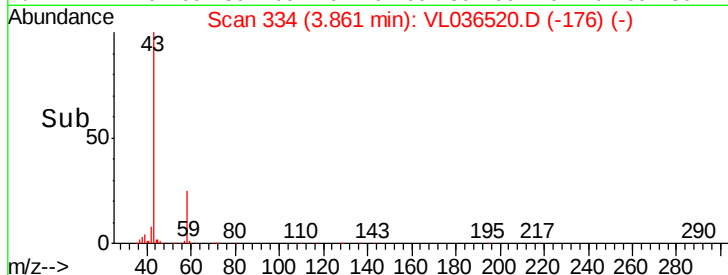
600000

400000

200000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.734 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.03 min

Lab File: VL036520.D

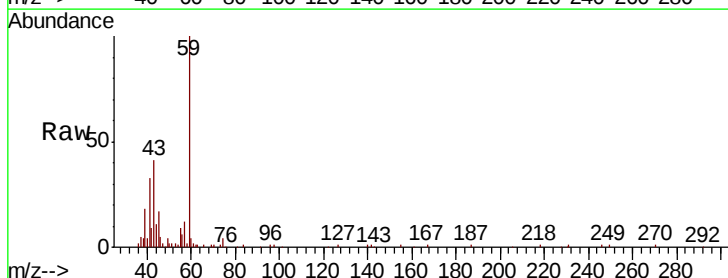
Acq: 26 Mar 2021 19:12

Tgt Ion: 59 Resp: 91131

Ion Ratio Lower Upper

59 100

57 15.5 8.6 12.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.32

50000

40000

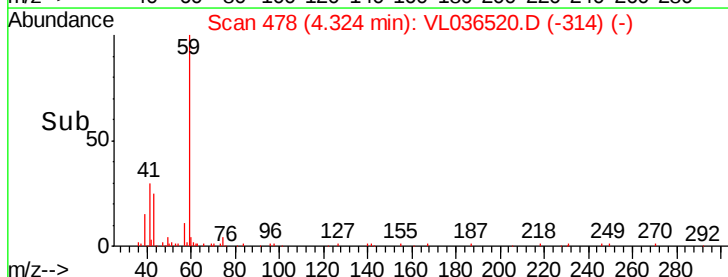
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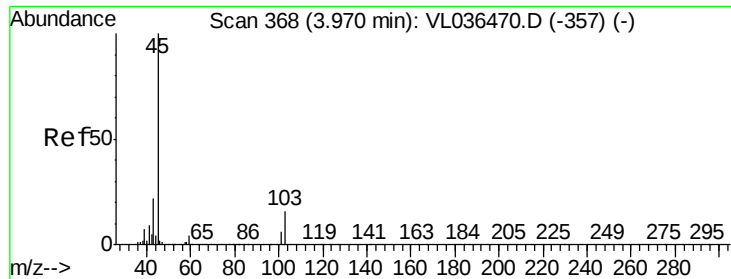
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10000

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Time-->





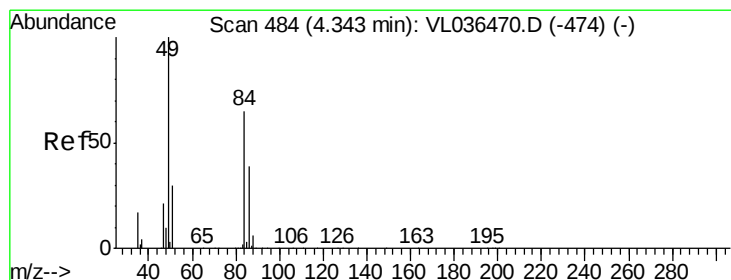
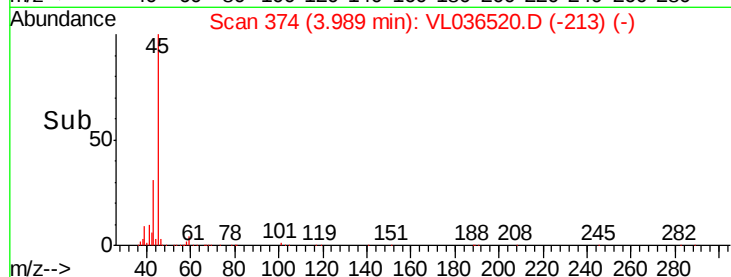
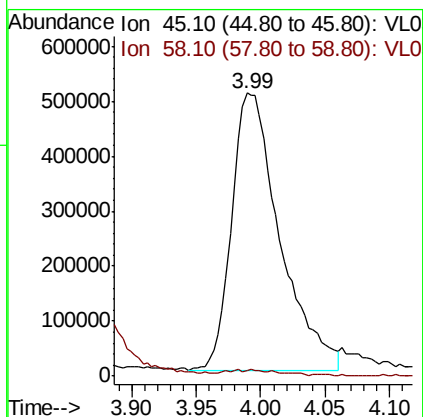
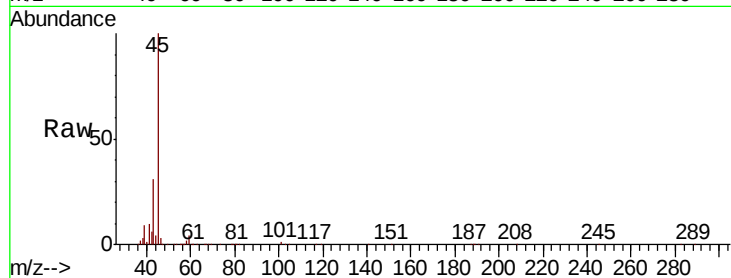
#19
Isopropyl Alcohol
Concen: 16.663 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.02 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion: 45 Resp: 1307230
Ion Ratio Lower Upper
45 100
58 2.9 2.9 4.3

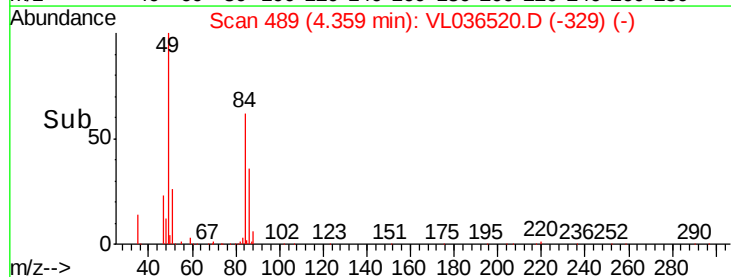
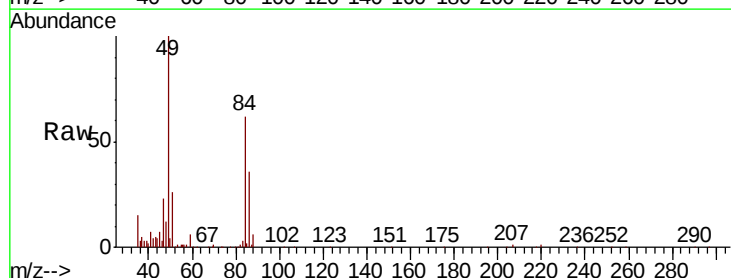
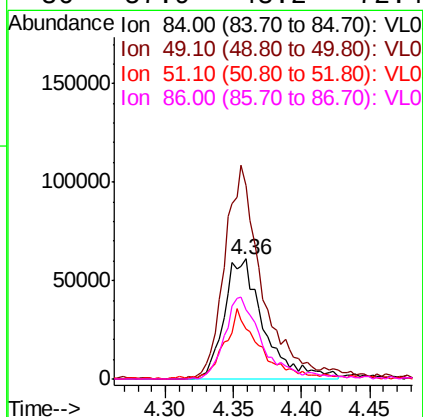
Manual Integrations
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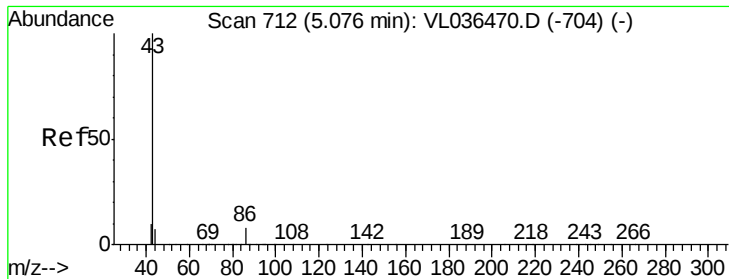
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#20
Methylene Chloride
Concen: 1.841 ppbv m
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion: 84 Resp: 122941
Ion Ratio Lower Upper
84 100
49 161.2 122.9 184.3
51 41.4 36.9 55.3
86 57.9 48.2 72.4





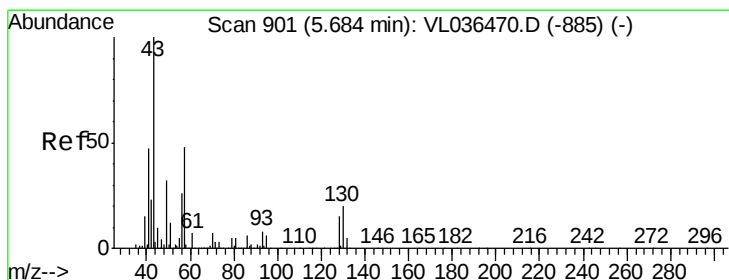
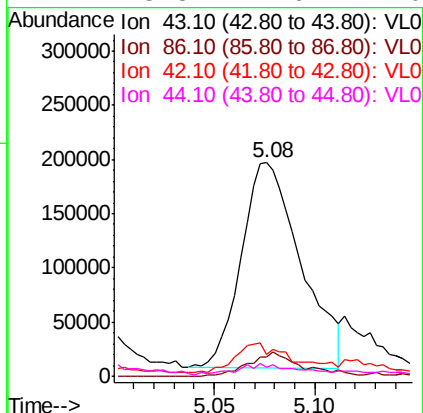
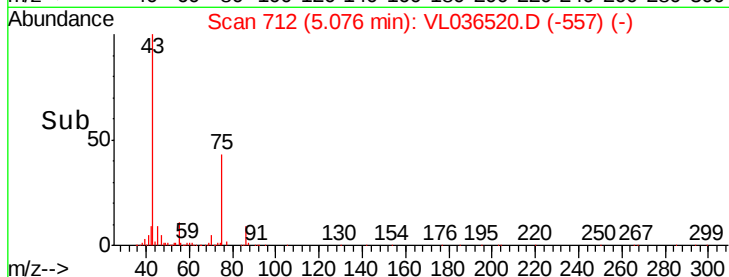
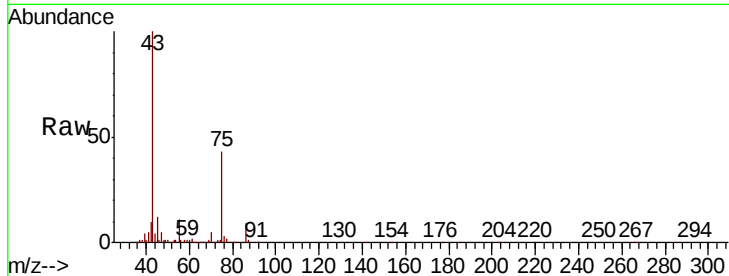
#23
 Vinyl Acetate
 Concen: 1.596 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
86	9.1	5.4	8.0#		
42	9.0	8.5	12.7		
44	3.3	4.6	7.0#		

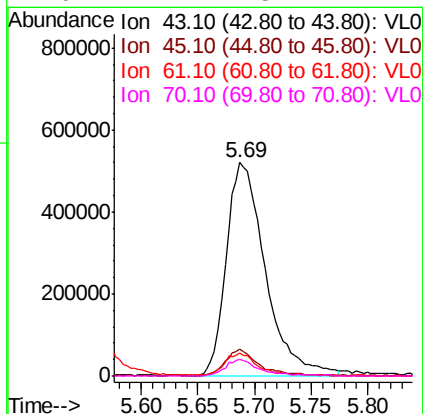
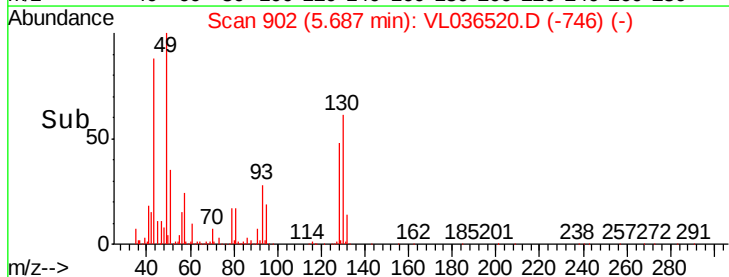
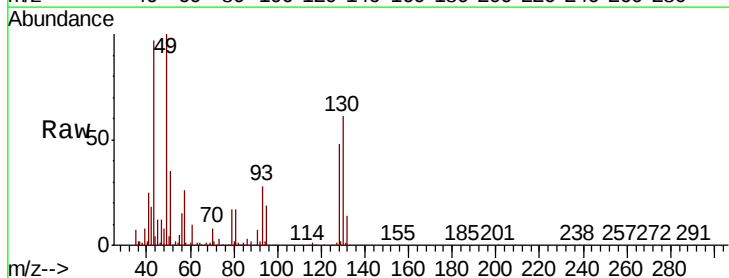
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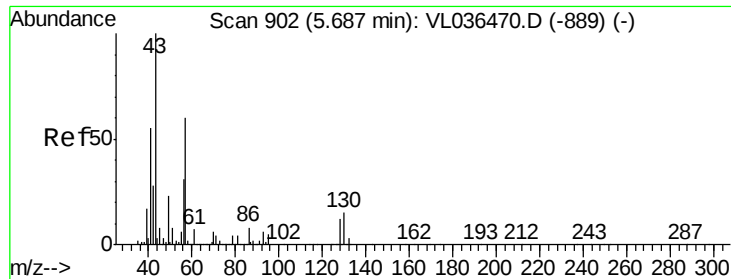
MMDadoda
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#25
 Ethyl Acetate
 Concen: 3.671 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.00 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.0	7.9	11.9		
61	10.2	7.4	11.2		
70	7.2	5.1	7.7		





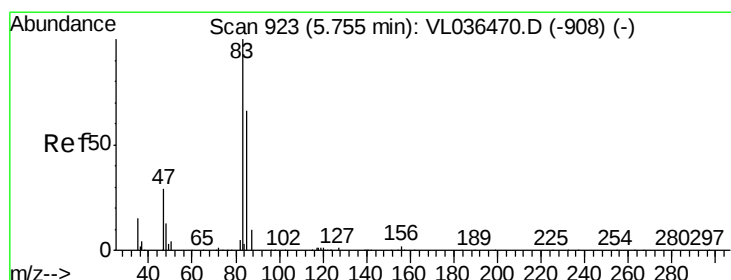
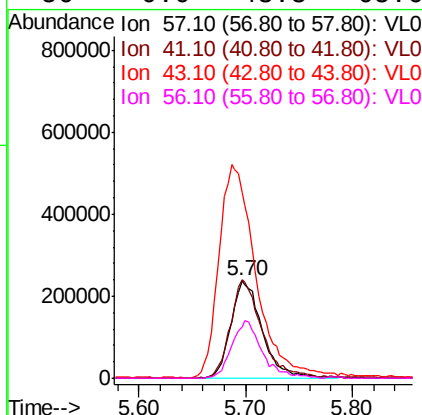
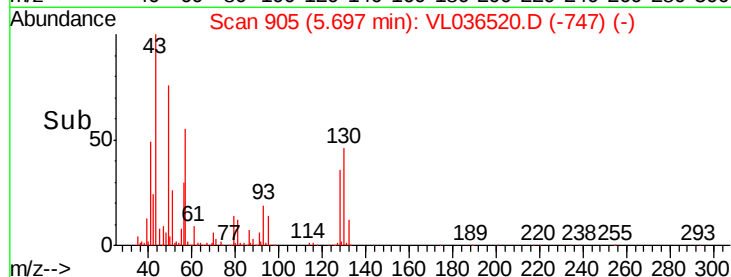
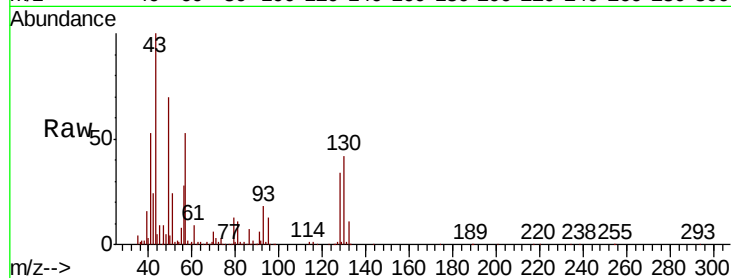
#26
Hexane
Concen: 3.078 ppbv m
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	0.0	173.8	260.6#
56	0.0	43.8	65.6#

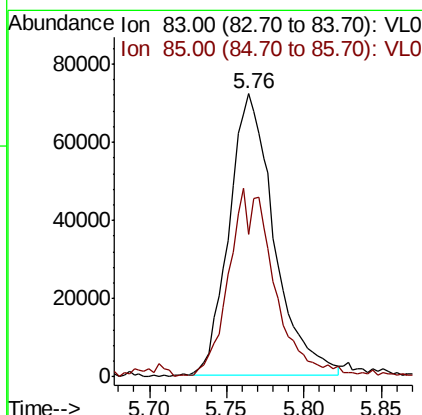
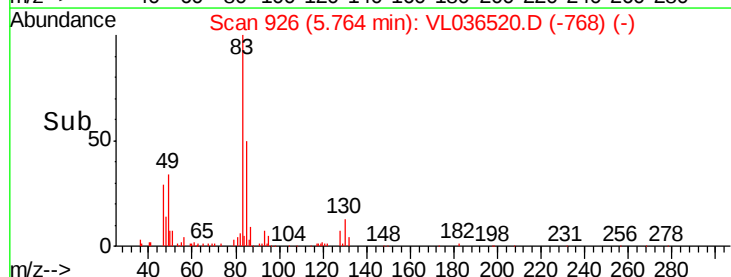
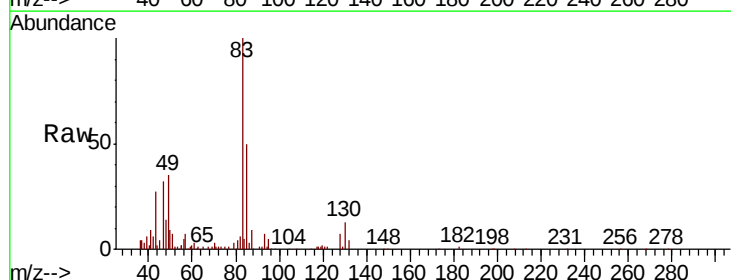
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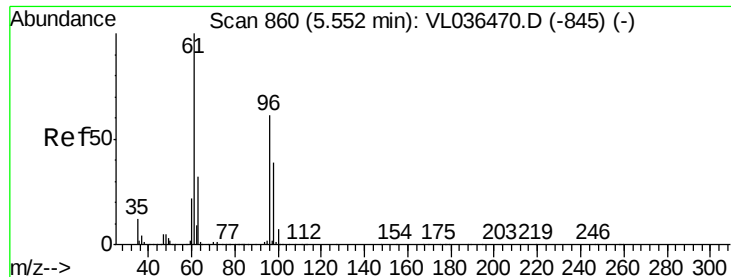
MMDadoda
3/29/2021 4:39:30 PM



#29
Chloroform
Concen: 0.583 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	49.9	52.6	78.8#





#31

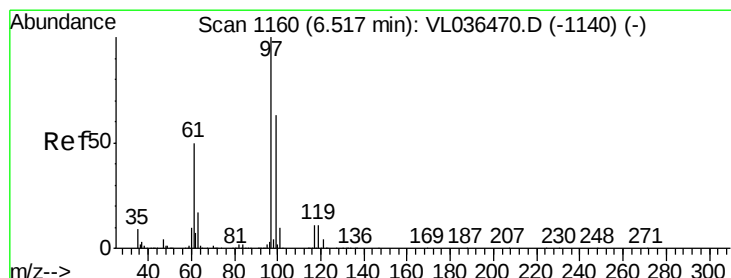
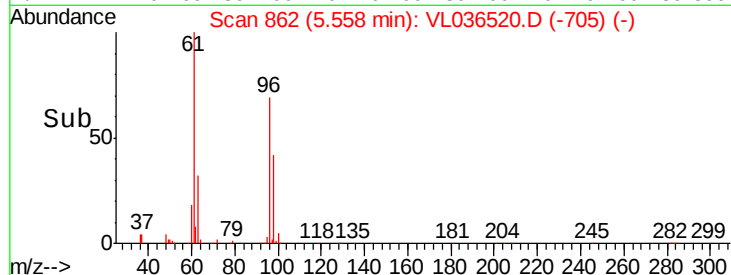
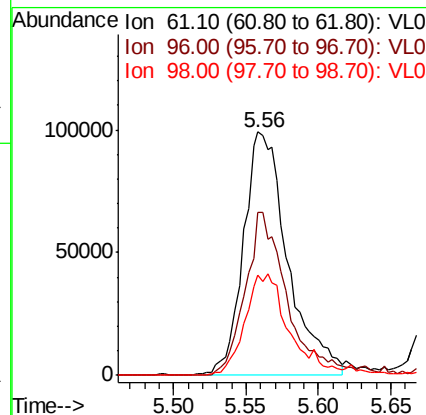
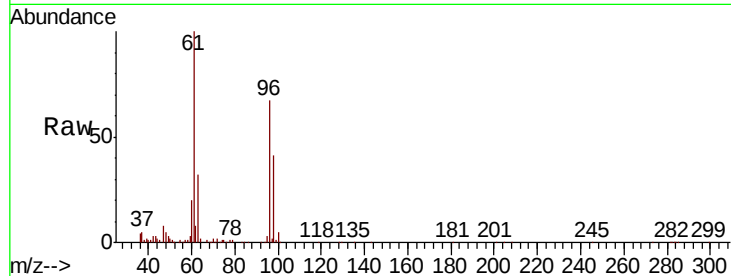
cis-1,2-Dichloroethene
 Concen: 1.387 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Tot Ion	Ratio	Resp	Lower	Upper
61	100	211120		
96	66.9	48.7	73.1	
98	40.8	31.4	47.0	

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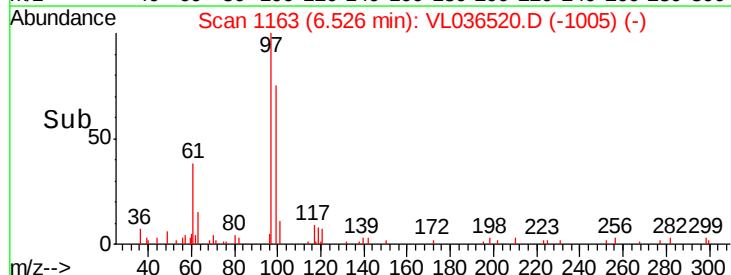
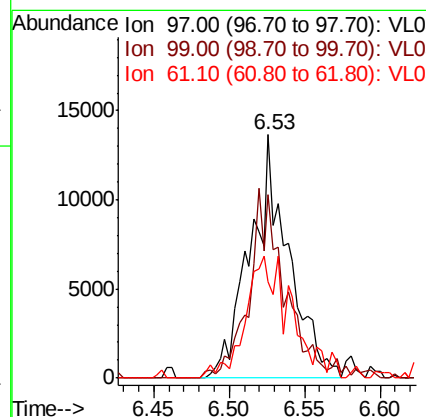
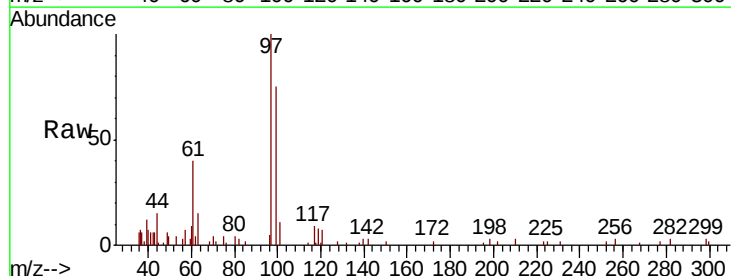
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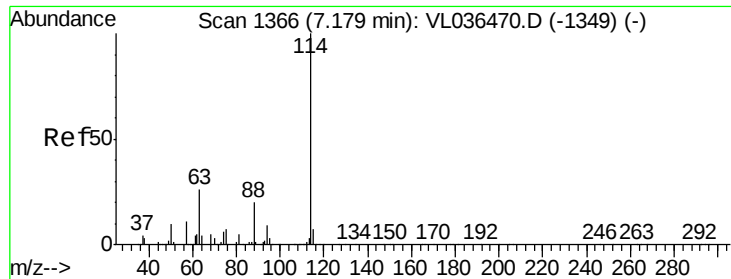


#32

1,1,1-Trichloroethane
 Concen: 0.095 ppbv m
 RT: 6.53 min Scan# 1163
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	24132		
99	75.1	51.4	77.0	
61	61.4	40.6	60.8	





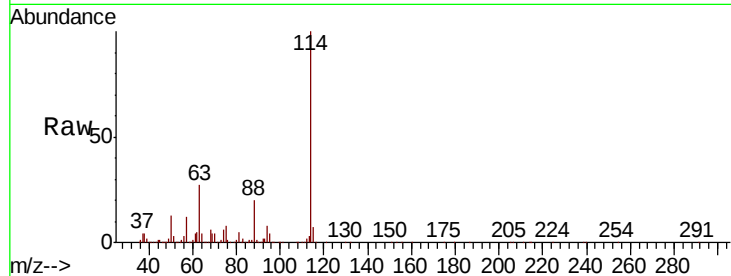
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

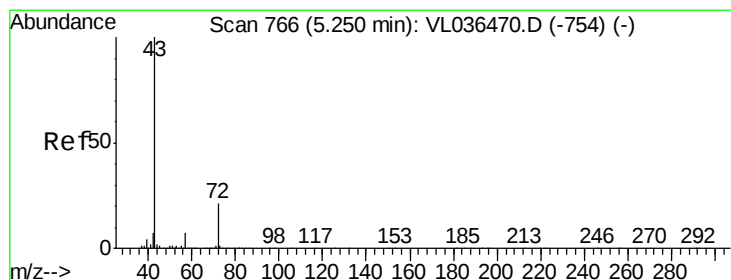
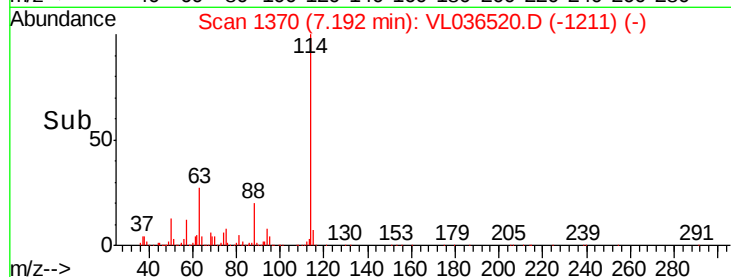
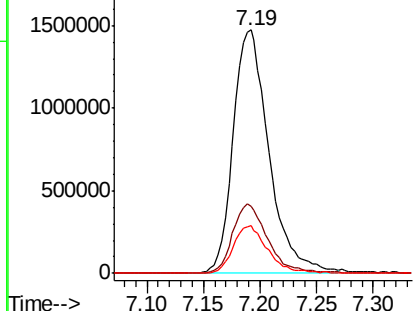
Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.4	33.6
88	19.1	15.4	23.0

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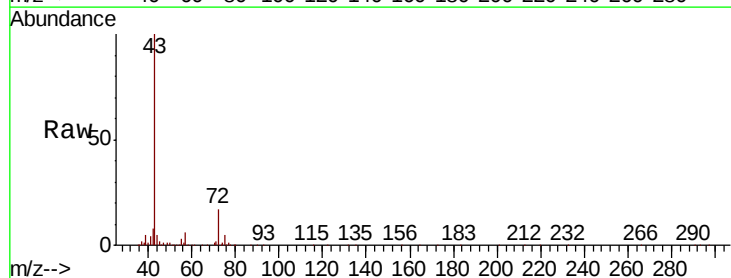


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

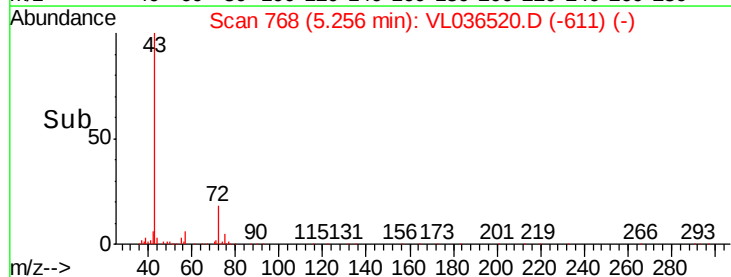
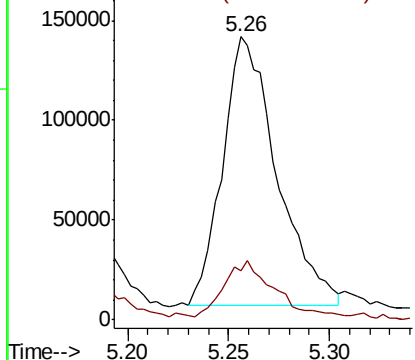


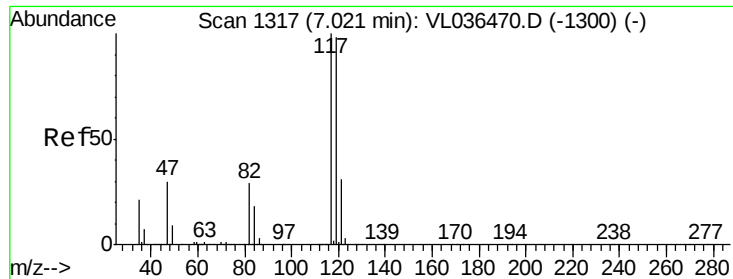
#34
 2-Butanone
 Concen: 1.593 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.0	25.6



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





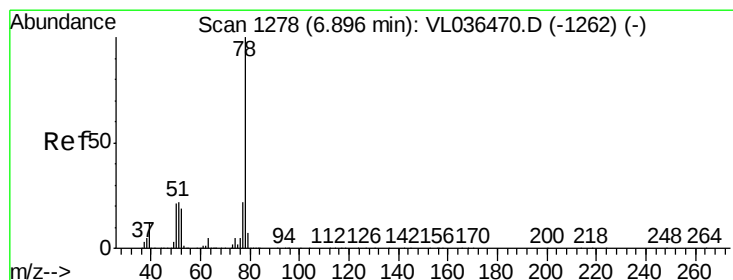
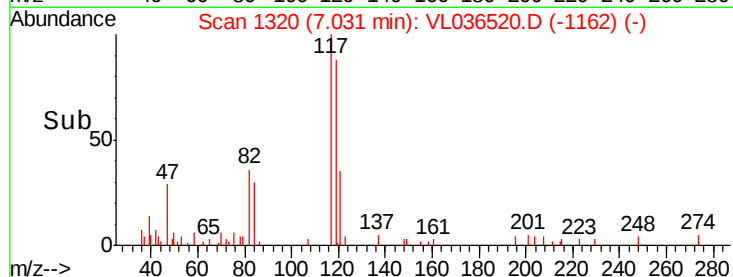
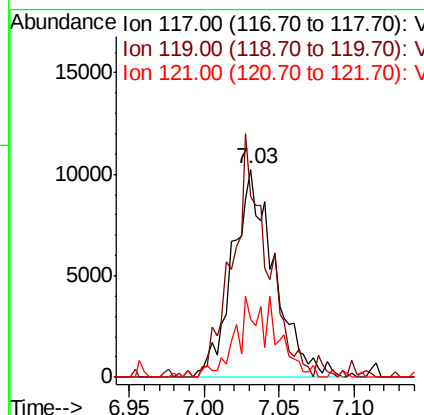
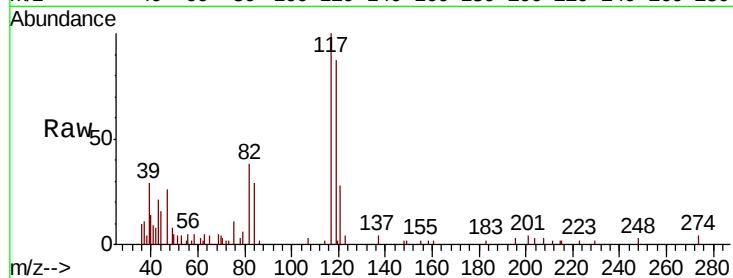
#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
117	100		
119	86.9	78.2	117.2
121	28.0	24.5	36.7

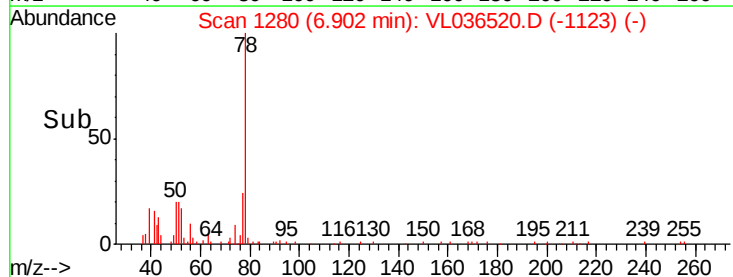
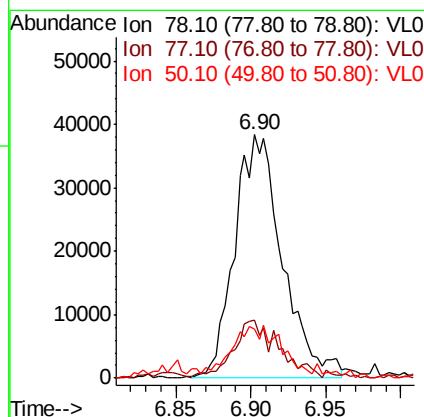
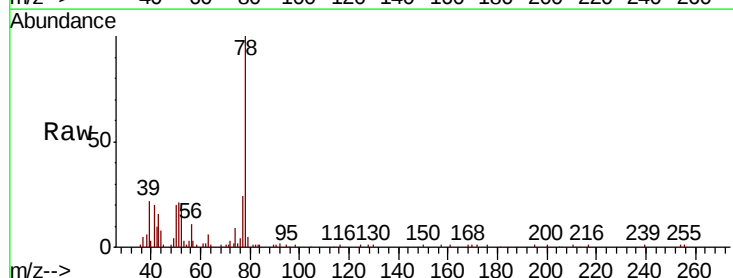
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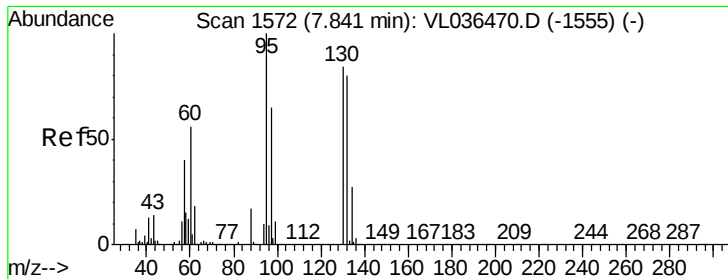
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#36
Benzene
Concen: 0.285 ppbv m
RT: 6.90 min Scan# 1280
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.0	27.0
50	20.1	16.5	24.7





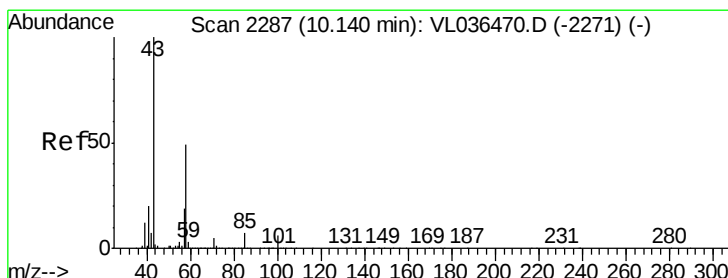
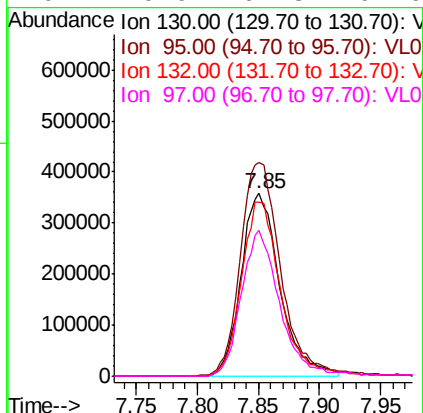
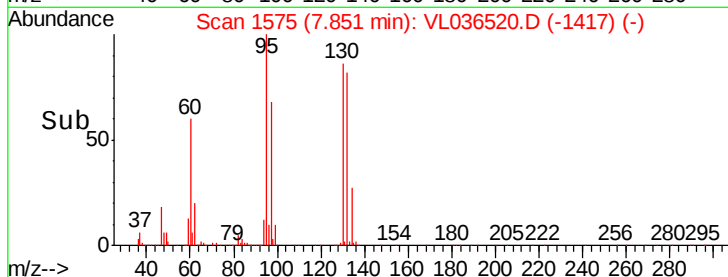
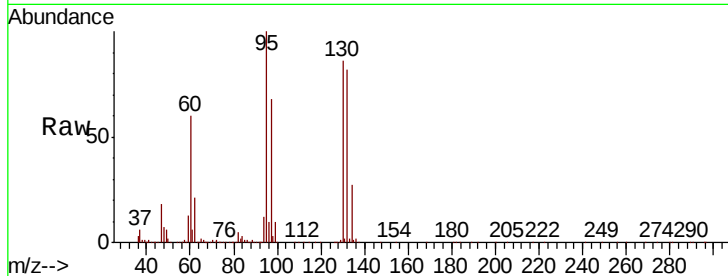
#38
 Trichloroethene
 Concen: 6.719 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
130	100		
95	116.7	95.7	143.5
132	95.2	76.2	114.4
97	79.9	61.8	92.6

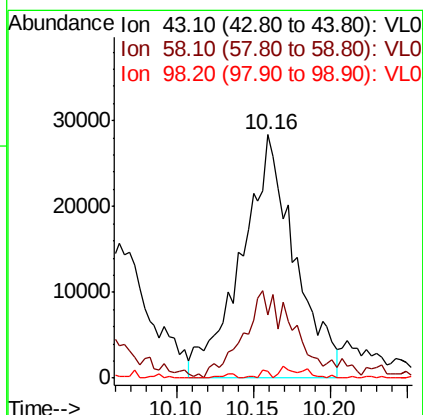
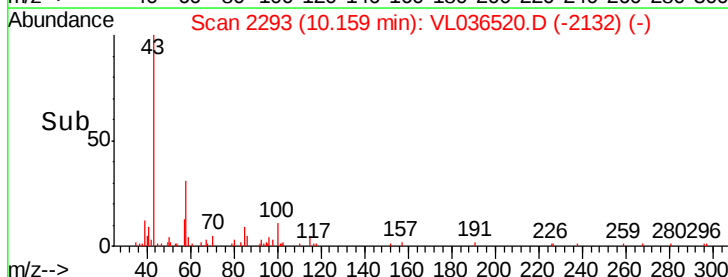
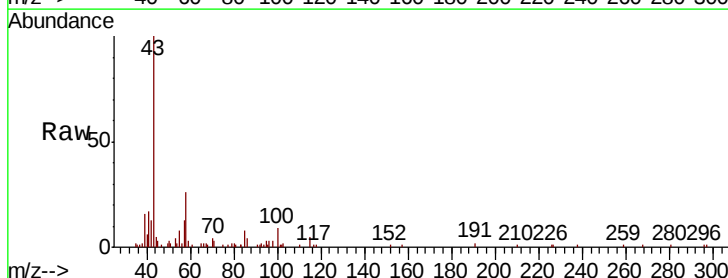
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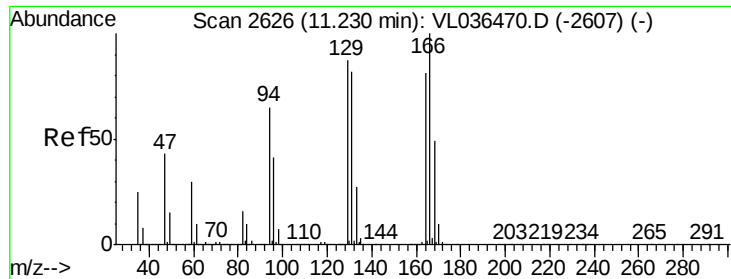
MMDadoda
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#51
 2-Hexanone
 Concen: 0.593 ppbv m
 RT: 10.16 min Scan# 2293
 Delta R.T. 0.02 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.9	37.7	56.5#
98	3.0	0.2	0.2#





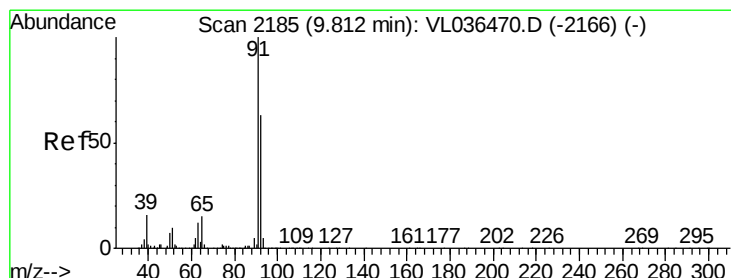
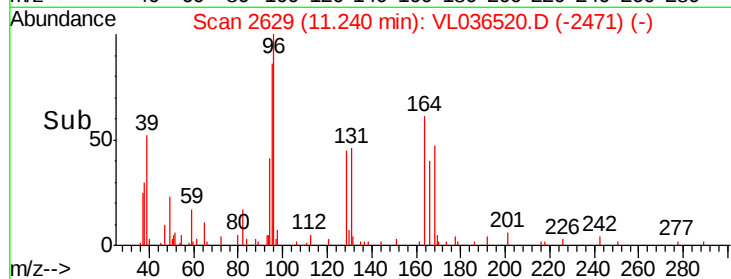
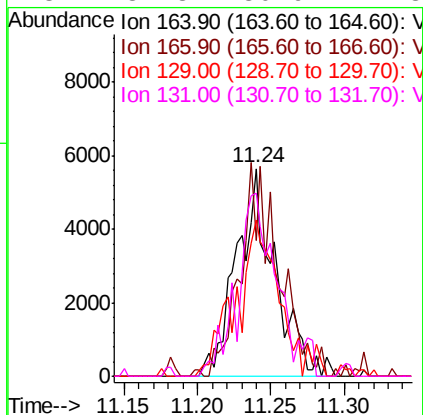
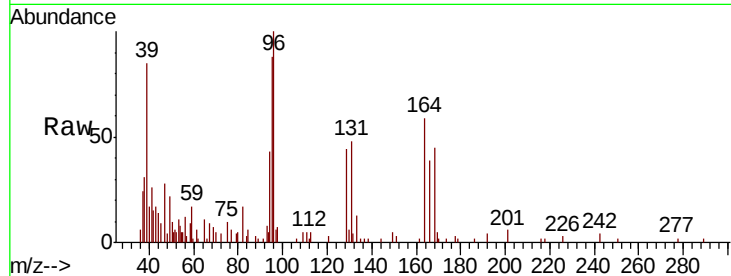
#52
Tetrachloroethene
Concen: 0.093 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
164	100		
166	65.5	98.3	147.5#
129	74.9	85.8	128.8#
131	81.3	80.9	121.3

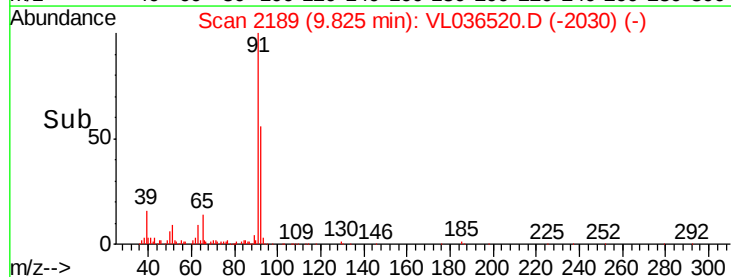
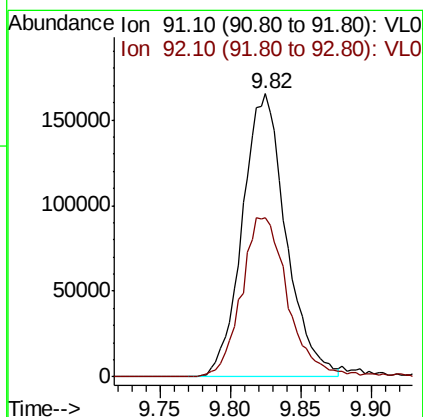
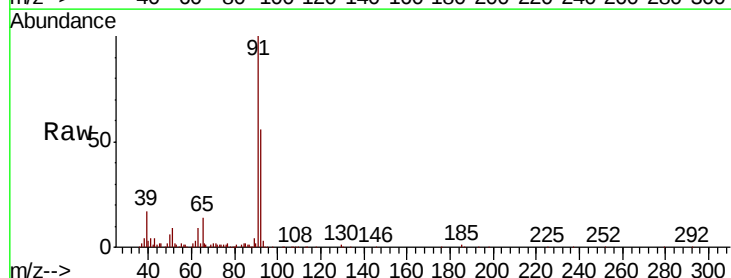
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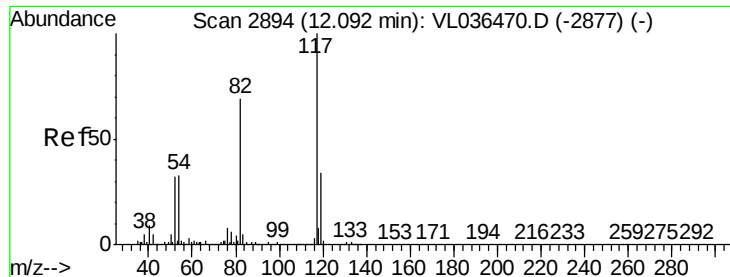
MMDadoda
3/29/2021 4:39:30 PM



#53
Toluene
Concen: 1.122 ppbv
RT: 9.82 min Scan# 2189
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.8	73.2





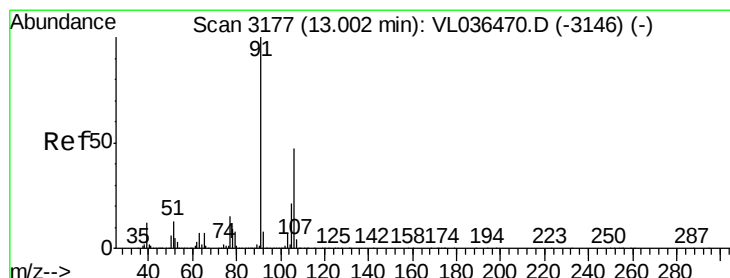
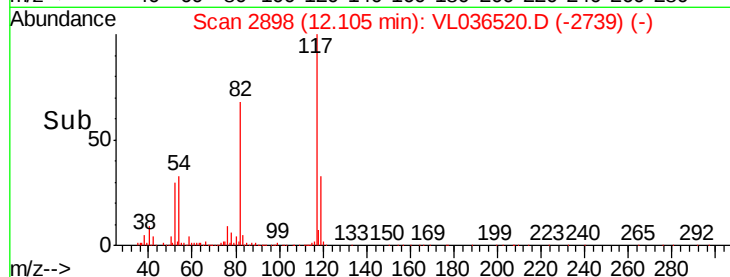
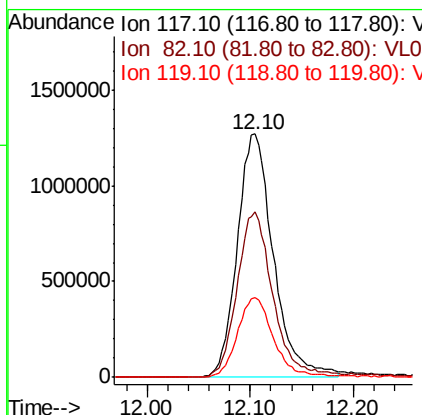
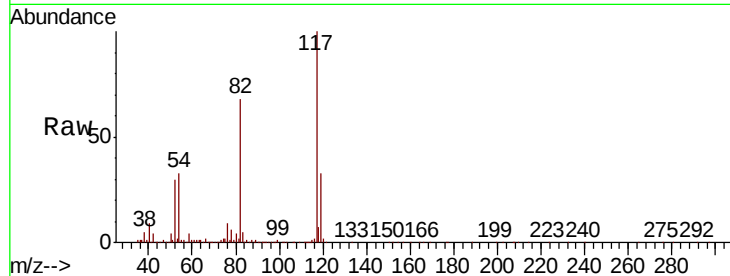
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.0	57.4	86.0
119	33.7	47.4	71.0

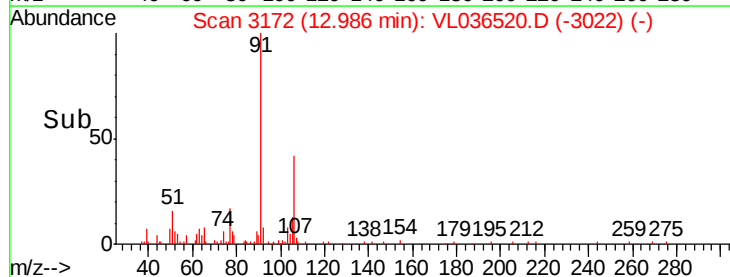
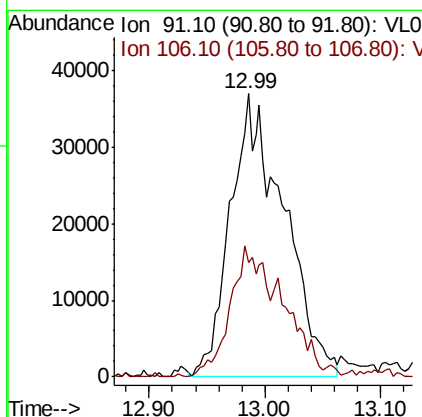
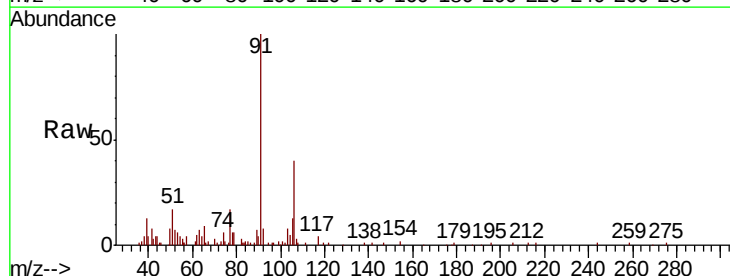
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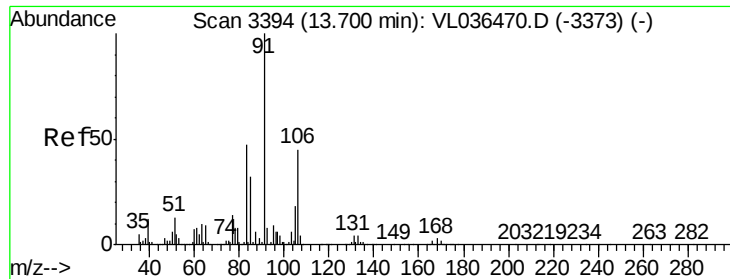
MMDadoda
3/29/2021 4:39:30 PM



#59
m/p-Xylene
Concen: 0.302 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9





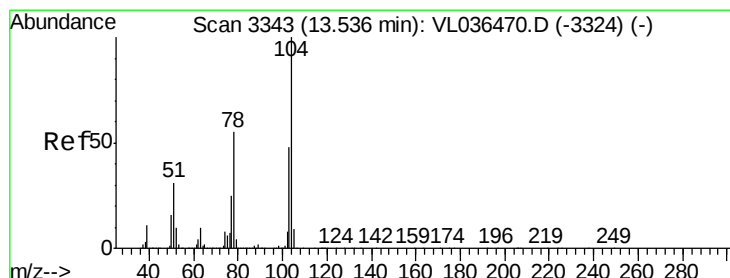
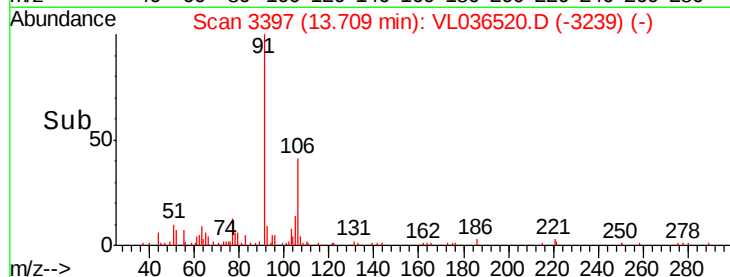
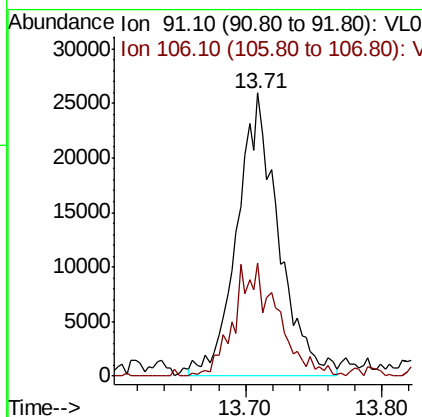
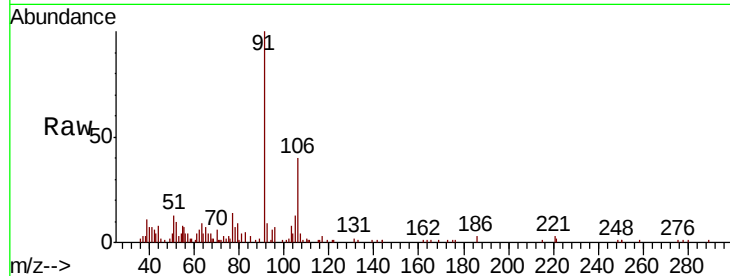
#60
o-Xylene
Concen: 0.144 ppbv m
RT: 13.71 min Scan# 3397
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Instrument :
MSVOA_L
ClientSampleId :
SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.0	22.3	66.9

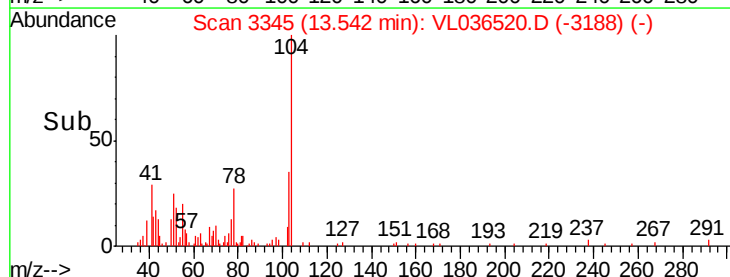
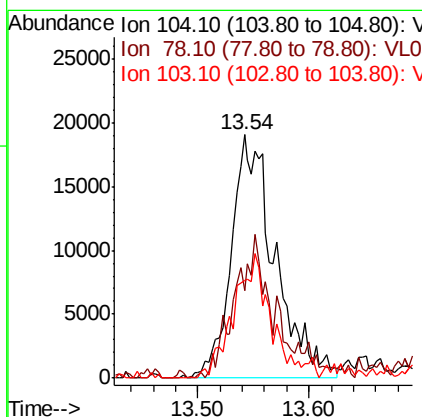
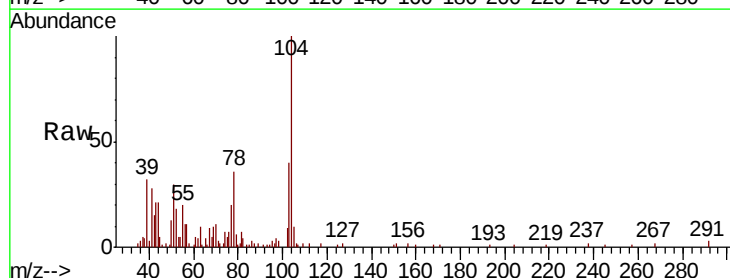
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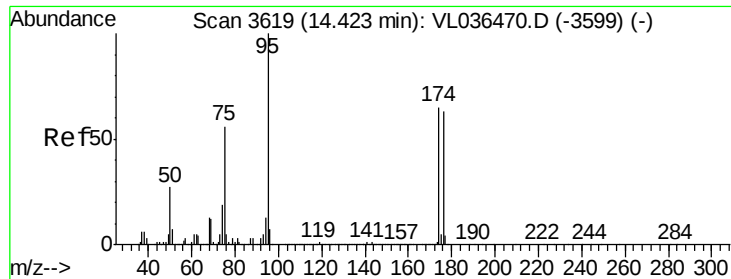
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#61
Styrene
Concen: 0.270 ppbv m
RT: 13.54 min Scan# 3345
Delta R.T. 0.01 min
Lab File: VL036520.D
Acq: 26 Mar 2021 19:12

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.6	43.8	65.8
103	44.5	38.3	57.5





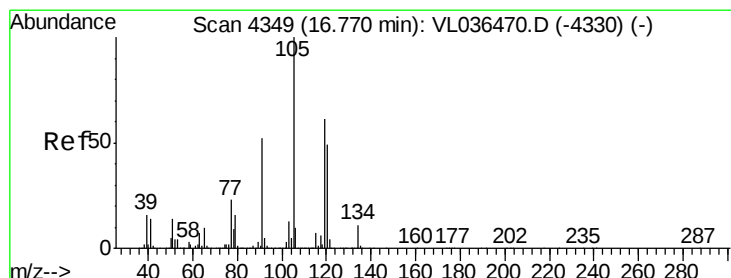
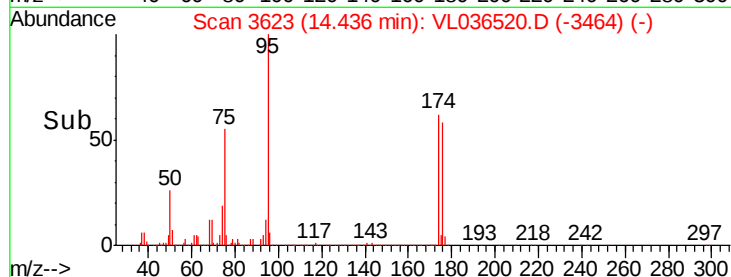
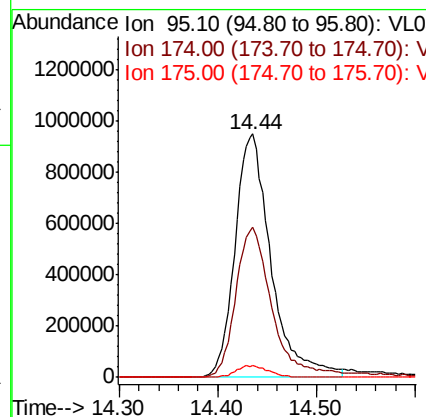
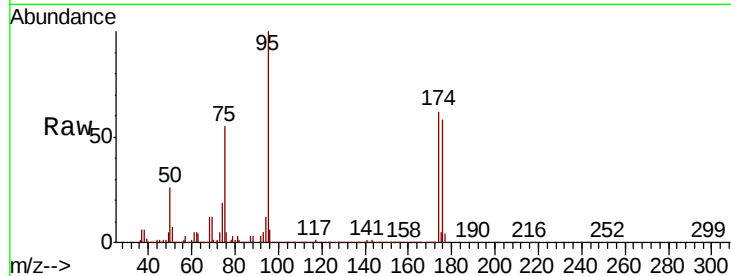
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.784 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Tot Ion: 95 Resp: 2417875
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.0 76.6
 175 5.0 3.9 5.9

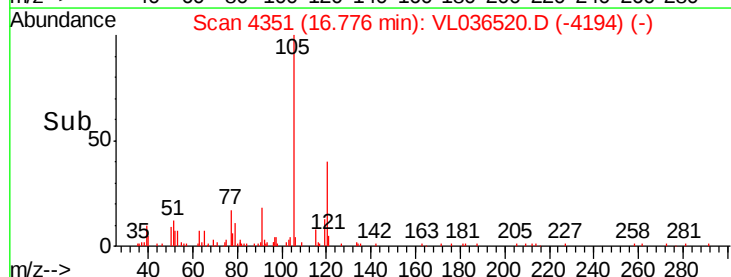
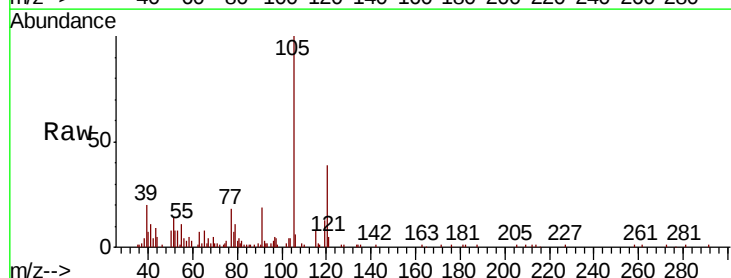
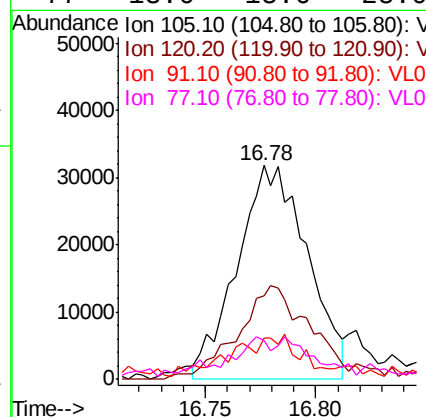
Manual Integrations
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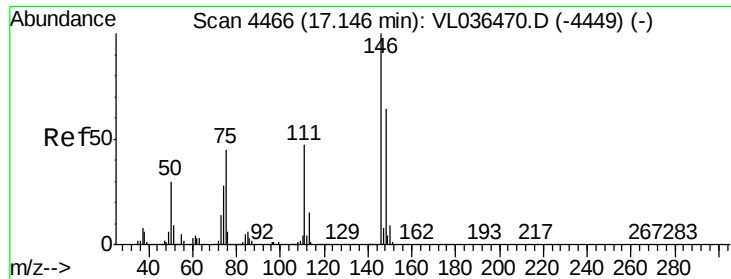
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 3/29/2021 4:39:30 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.169 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Tgt Ion: 105 Resp: 70182
 Ion Ratio Lower Upper
 105 100
 120 38.9 39.2 58.8#
 91 14.4 42.6 64.0#
 77 13.6 18.6 28.0#





#76
 1,4-Dichlorobenzene
 Concen: 0.453 ppbv m
 RT: 17.16 min Scan# 4470
 Delta R.T. 0.01 min
 Lab File: VL036520.D
 Acq: 26 Mar 2021 19:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.3	72.8
148	67.6	33.0	98.9

Manual Integrations
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