

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035369.D
 Acq On : 7 Aug 2020 5:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/7/2020 12:54:47 PM

Quant Time: Aug 07 09:00:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1313601	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3276578	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	3227968	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2670061	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	1729572	9.899	ppbv	99
3) Chlorodifluoromethane	2.93	51	1329739	8.868	ppbv	100
4) Chloromethane	3.09	50	789110	9.295	ppbv	96
5) Vinyl Chloride	3.21	62	775371	8.879	ppbv	99
6) Bromomethane	3.43	94	508286	9.501	ppbv	97
7) Chloroethane	3.51	64	297834	9.183	ppbv	97
8) Dichlorotetrafluoroethane	3.14	85	1903273	9.216	ppbv	99
9) Propene	2.96	41	526936	9.862	ppbv	99
10) Heptane	8.12	43	1524788	11.172	ppbv	99
11) Trichlorofluoromethane	3.91	101	2058972	9.096	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1459242	9.019	ppbv	99
13) Ethanol	3.56	45	133448	7.241	ppbv	100
14) Bromoethene	3.69	108	613457	9.455	ppbv	97
15) Acetone	3.81	43	1795620	9.626	ppbv	99
16) 1,3-Butadiene	3.28	39	618952	8.621	ppbv #	78
17) tert-Butyl alcohol	4.26	59	171724m	1.003	ppbv	
18) 1,1-Dichloroethene	4.25	96	651378	9.375	ppbv	94
19) Isopropyl Alcohol	3.92	45	961781	8.134	ppbv #	98
20) Methylene Chloride	4.31	84	595580	7.829	ppbv	99
21) Allyl Chloride	4.38	41	1085260	10.154	ppbv	98
22) trans-1,2-Dichloroethene	4.85	96	633828	9.408	ppbv	98
23) Vinyl Acetate	5.05	43	1906457	10.659	ppbv	99
24) 1,1-Dichloroethane	4.98	63	1586257	9.437	ppbv	97
25) Ethyl Acetate	5.66	43	2712487	9.570	ppbv	99
26) Hexane	5.66	57	1217125	9.900	ppbv	98
27) Carbon Disulfide	4.52	76	1721493	10.013	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1636989	9.157	ppbv	100
29) Chloroform	5.74	83	1996577	9.420	ppbv	97
30) Cyclohexane	7.12	84	1016290	10.901	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	1184082	10.834	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	1983835	8.905	ppbv	99
34) 2-Butanone	5.22	43	1698882	10.530	ppbv	100
35) Carbon Tetrachloride	7.01	117	2124524	9.422	ppbv	98
36) Benzene	6.89	78	2403723	10.864	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1552062	10.041	ppbv	100
38) Trichloroethene	7.83	130	1052643	10.314	ppbv	95
39) 1,2-Dichloropropane	7.61	63	911009	10.171	ppbv	97
40) 1,4-Dioxane	7.83	88	358970	9.358	ppbv #	1
41) Tetrahydrofuran	6.03	42	873170	11.029	ppbv	99
42) Bromodichloromethane	7.79	83	2140242	10.311	ppbv	99
43) Methyl Methacrylate	8.01	69	1038281	11.154	ppbv	99

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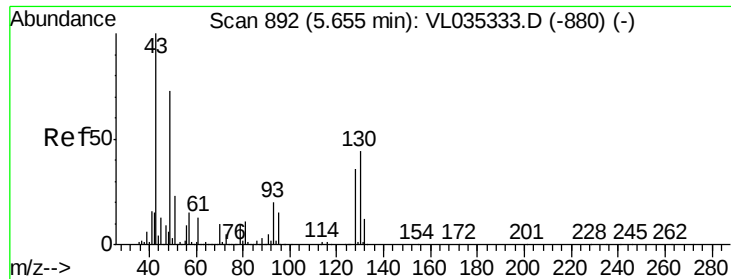
Manual Integrations
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Quant Time: Aug 07 09:00:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4168121	10.604	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1269575	13.148	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1510694	12.955	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1073152	9.965	ppbv	97
48) Dibromochloromethane	10.32	129	1869019	10.595	ppbv	99
49) Bromoform	13.07	173	1758484	10.939	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2585977	10.498	ppbv	99
51) 2-Hexanone	10.14	43	2161861	11.195	ppbv #	99
52) Tetrachloroethene	11.24	164	944046	10.762	ppbv	97
53) Toluene	9.82	91	2901556	12.055	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1634965	10.582	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1418312	9.308	ppbv	97
57) Chlorobenzene	12.17	112	2394228	9.851	ppbv	95
58) Ethyl Benzene	12.73	91	3940871	11.733	ppbv	97
59) m/p-Xylene	13.01	91	6670829m	21.329	ppbv	
60) o-Xylene	13.72	91	3389749	10.922	ppbv	99
61) Styrene	13.55	104	1988878	10.493	ppbv	99
62) Isopropylbenzene	14.69	105	4837825	10.352	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	2465676	9.312	ppbv	100
64) n-propylbenzene	15.59	120	1319394	10.506	ppbv	100
65) tert-Butylbenzene	16.77	119	4433099	10.359	ppbv	99
66) Benzyl Chloride	17.02	91	1883089	11.118	ppbv	100
67) sec-Butylbenzene	17.32	105	6127395	10.123	ppbv	99
69) p-Isopropyltoluene	17.68	119	5151056	10.438	ppbv	100
70) n-Butylbenzene	18.58	91	5308511	10.057	ppbv	100
71) 2-Chlorotoluene	15.48	91	3735596	10.912	ppbv	98
72) 4-Ethyltoluene	15.87	105	4027744	11.382	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	3794384	11.175	ppbv	100
74) 1,2,4-Trimethylbenzene	16.79	105	4061548	10.466	ppbv	93
75) 1,3-Dichlorobenzene	17.03	146	2425106	9.552	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2394550	10.185	ppbv	100
77) 1,2-Dichlorobenzene	17.85	146	2318674	9.896	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1936697	9.715	ppbv	99
79) Naphthalene	22.25	128	3820566	12.799	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	1625603	23.941	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	2164872	11.508	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1313601

Ion Ratio Lower Upper

49 100

128 49.9 25.4 76.0

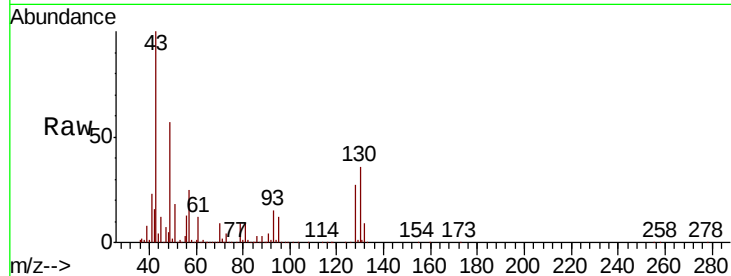
130 63.1 32.1 96.3

Manual Integrations

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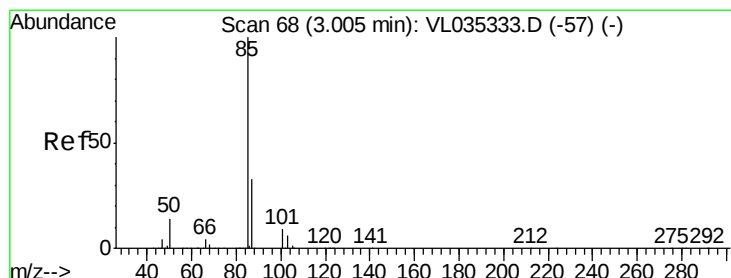
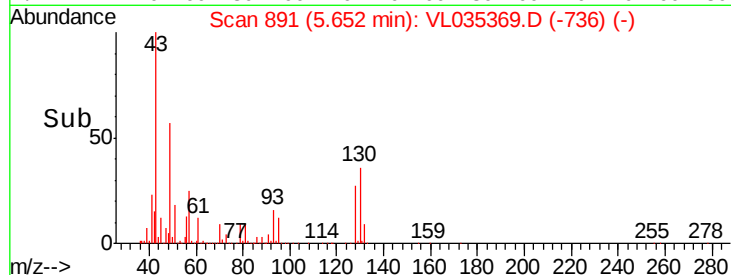
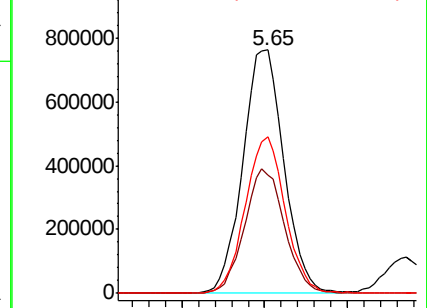
8/7/2020 12:54:47 PM



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



#2

Dichlorodifluoromethane

Concen: 9.899 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035369.D

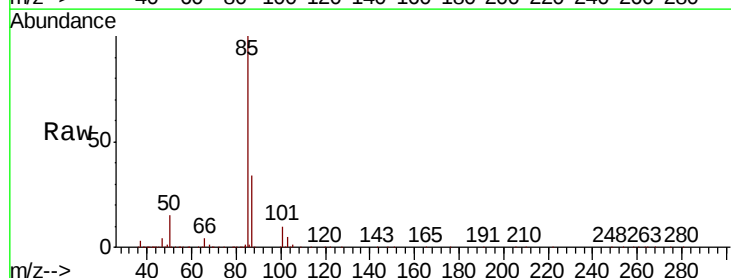
Acq: 7 Aug 2020 5:03

Tgt Ion: 85 Resp: 1729572

Ion Ratio Lower Upper

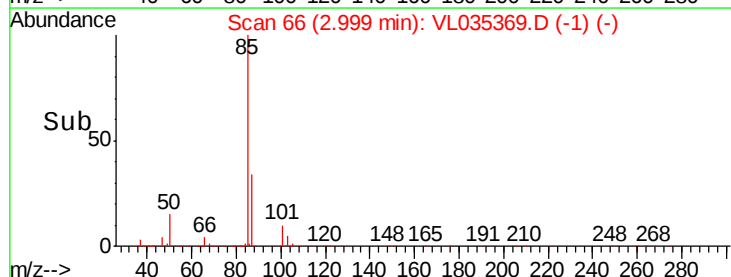
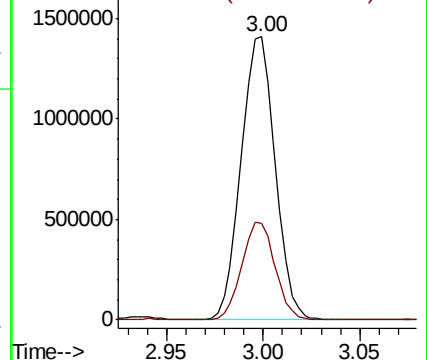
85 100

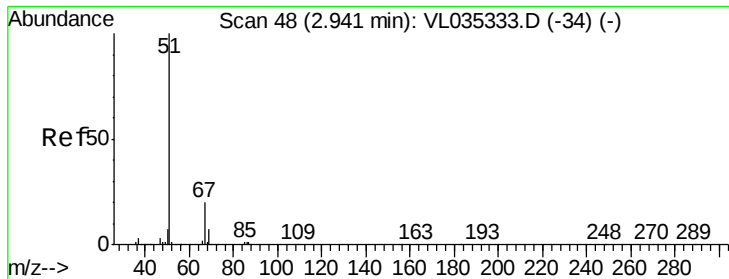
87 34.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.868 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1329739

Ion Ratio Lower Upper

51 100

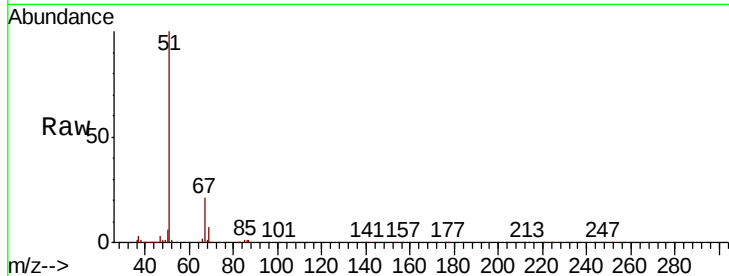
67 20.9 16.6 25.0

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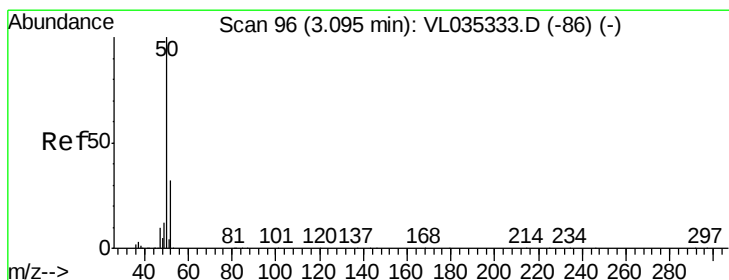
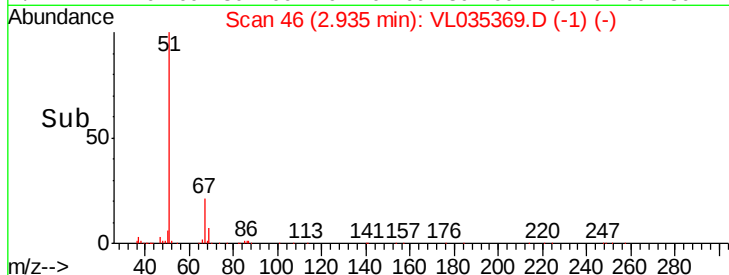
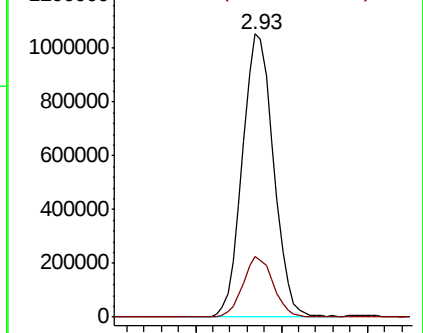
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.295 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL035369.D

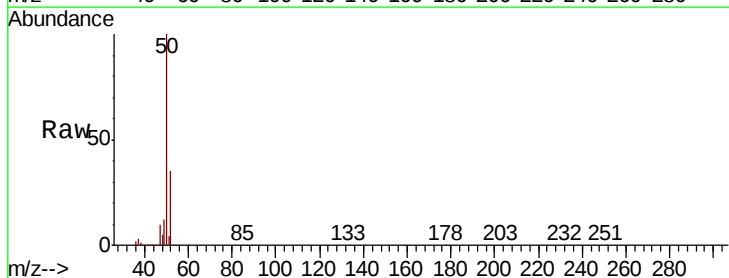
Acq: 7 Aug 2020 5:03

Tgt Ion: 50 Resp: 789110

Ion Ratio Lower Upper

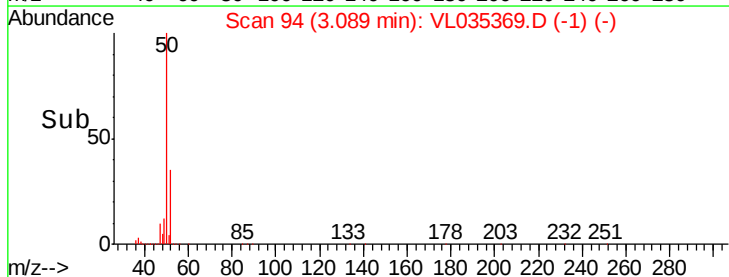
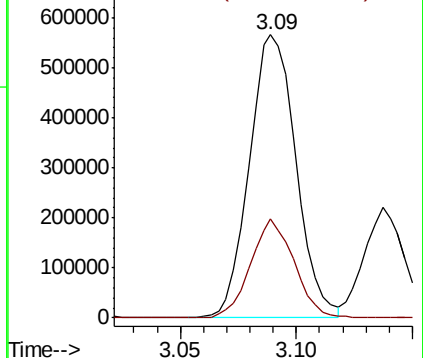
50 100

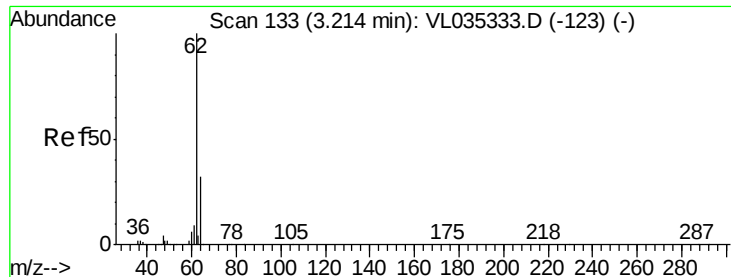
52 34.9 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.879 ppbv

RT: 3.21 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 775371

Ion Ratio Lower Upper

62 100

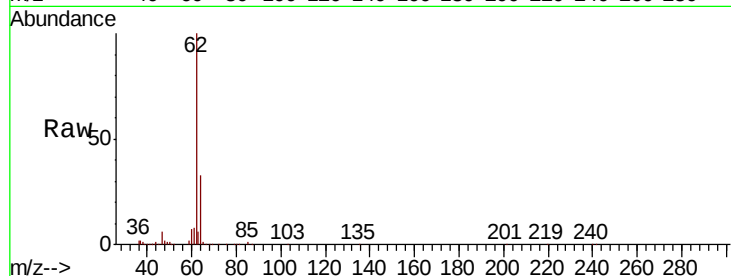
64 33.0 25.8 38.6

Manual Integrations

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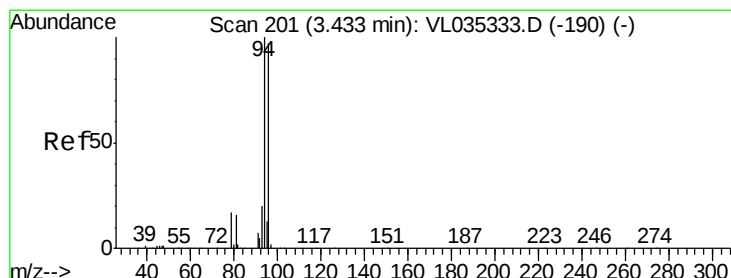
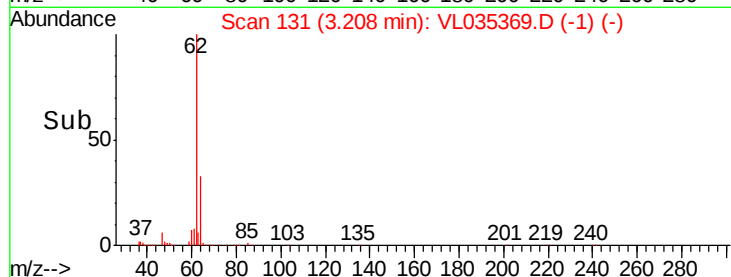
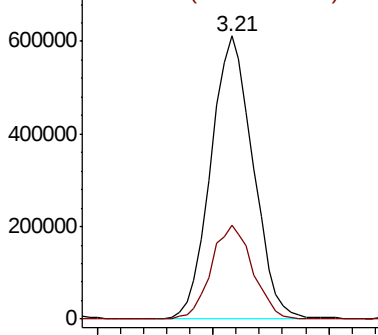
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.501 ppbv

RT: 3.43 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL035369.D

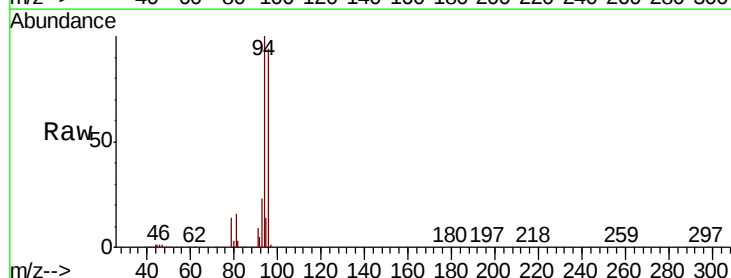
Acq: 7 Aug 2020 5:03

Tgt Ion: 94 Resp: 508286

Ion Ratio Lower Upper

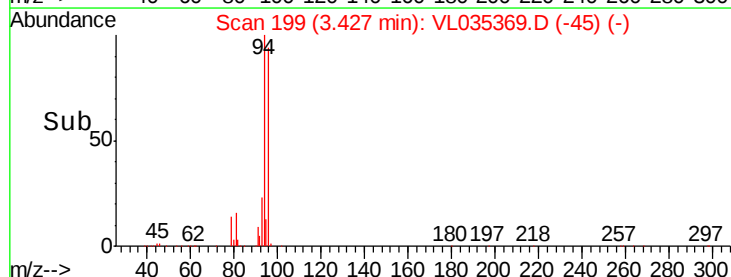
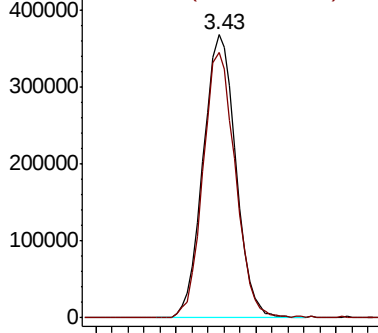
94 100

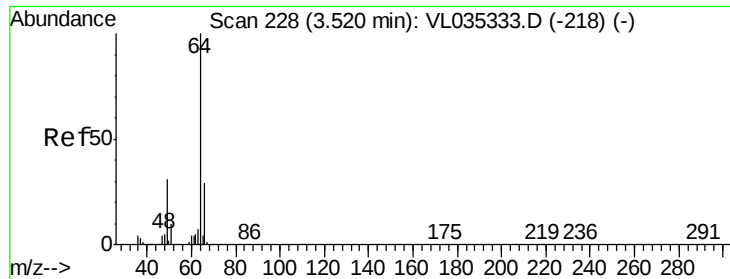
96 93.4 77.3 115.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.183 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 297834

Ion Ratio Lower Upper

64 100

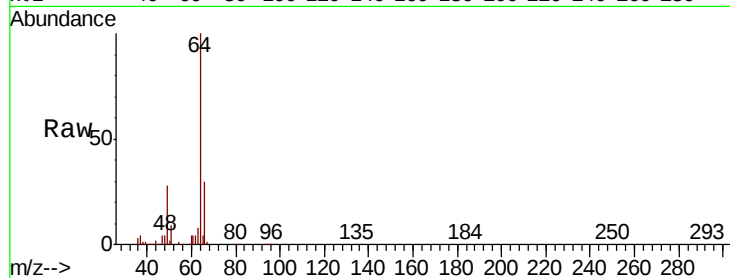
66 30.4 23.0 34.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

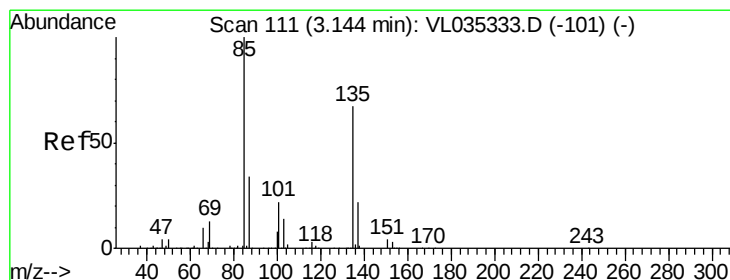
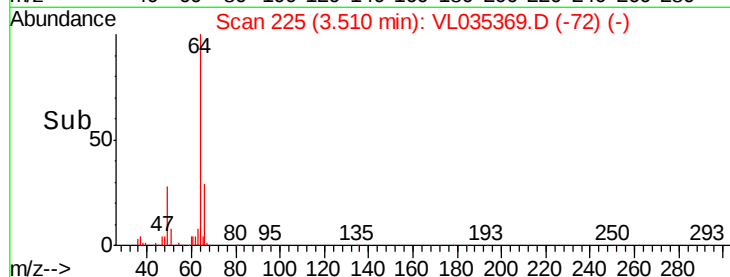
100000

50000

0

3.45 3.50 3.55

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.216 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL035369.D

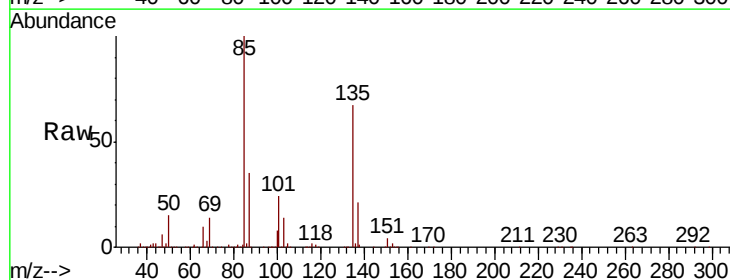
Acq: 7 Aug 2020 5:03

Tgt Ion: 85 Resp: 1903273

Ion Ratio Lower Upper

85 100

135 67.3 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

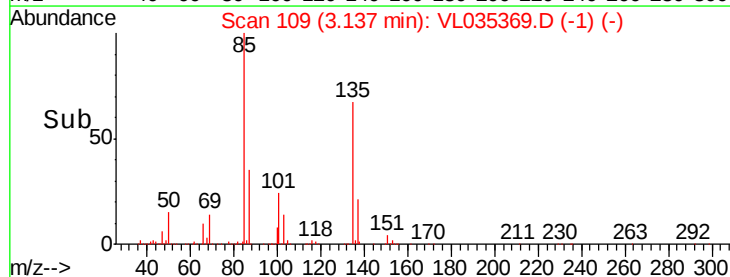
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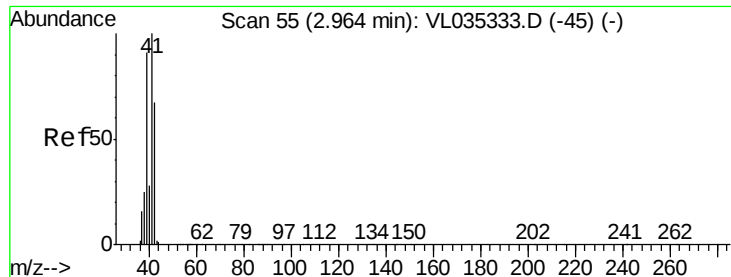
500000

0

3.10 3.15

Time-->





#9

Propene

Concen: 9.862 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 526936

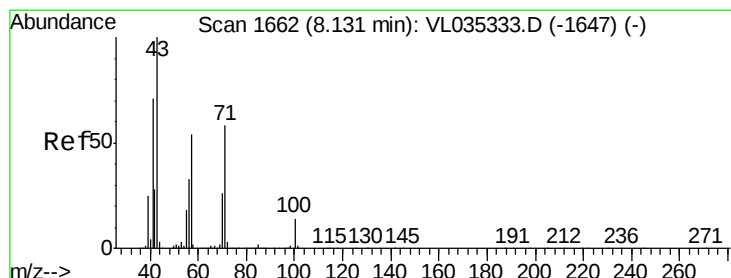
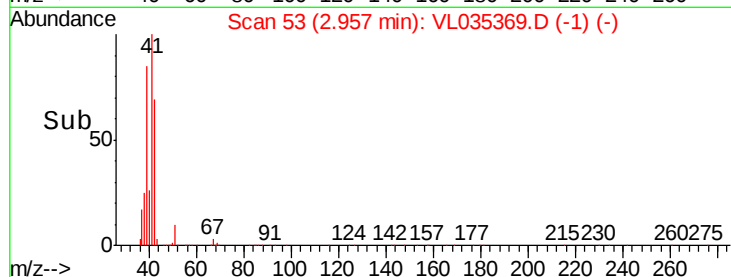
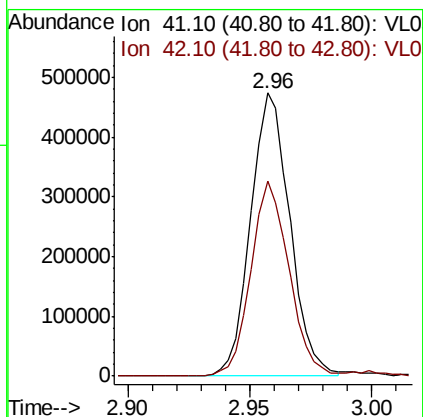
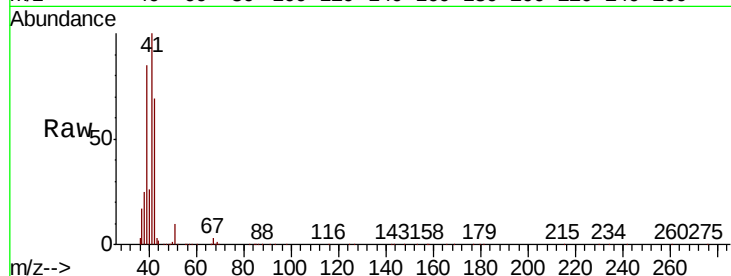
Ion Ratio Lower Upper

41 100

42 68.7 55.3 82.9

Manual Integrations
APPROVED

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#10

Heptane

Concen: 11.172 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035369.D

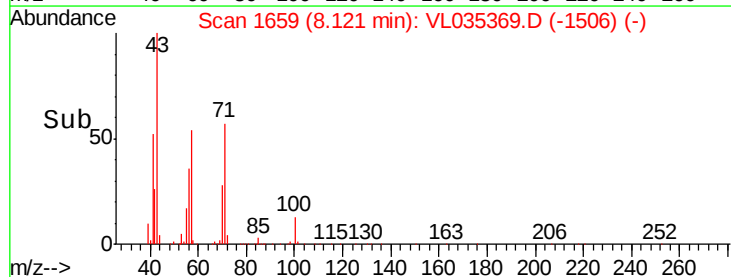
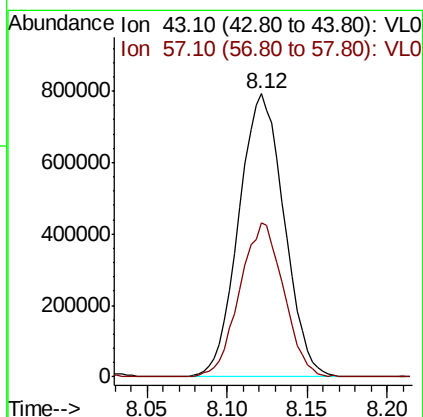
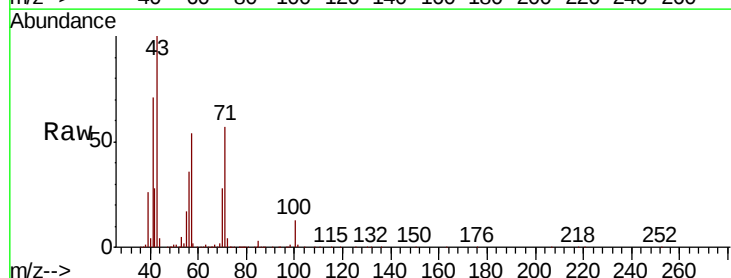
Acq: 7 Aug 2020 5:03

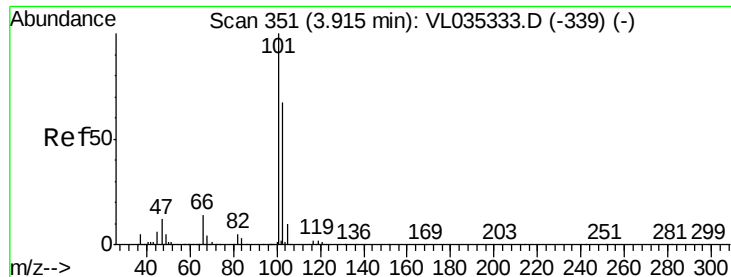
Tgt Ion: 43 Resp: 1524788

Ion Ratio Lower Upper

43 100

57 53.2 43.0 64.6





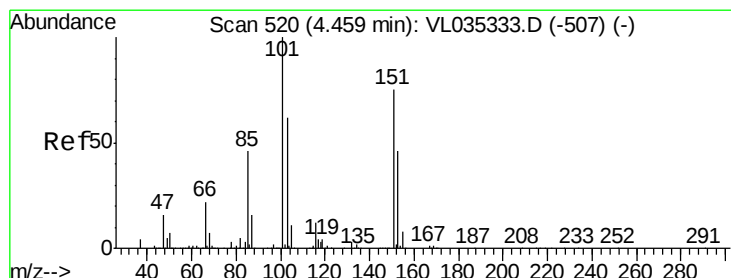
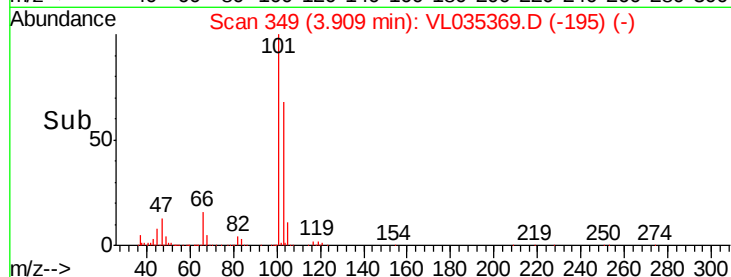
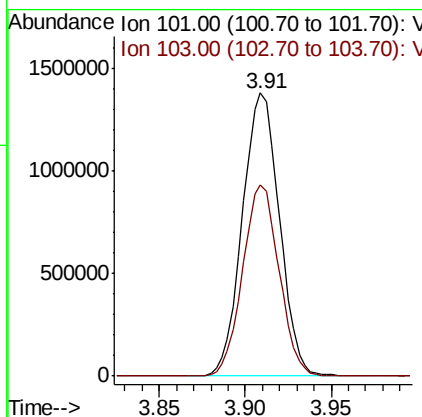
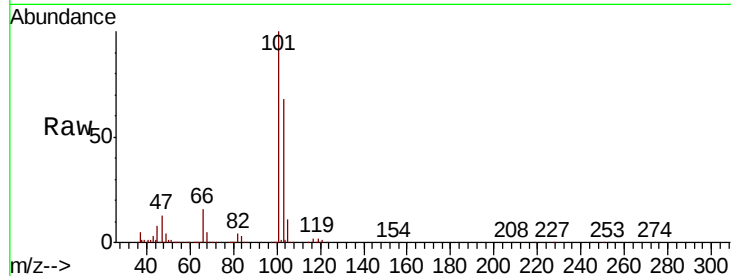
#11
 Trichlorofluoromethane
 Concen: 9.096 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2058972
 Ion Ratio Lower Upper
 101 100
 103 67.6 53.8 80.8

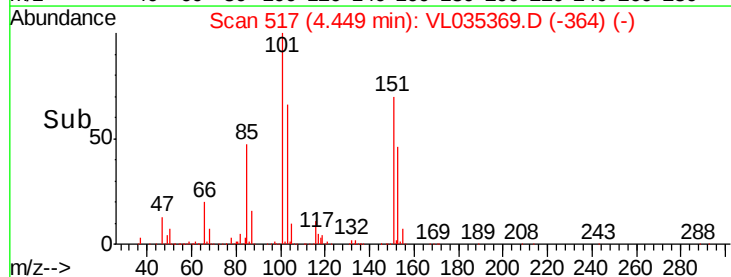
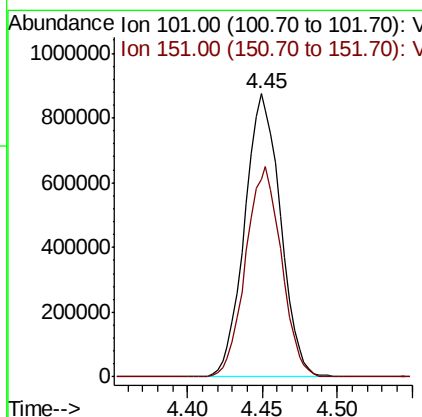
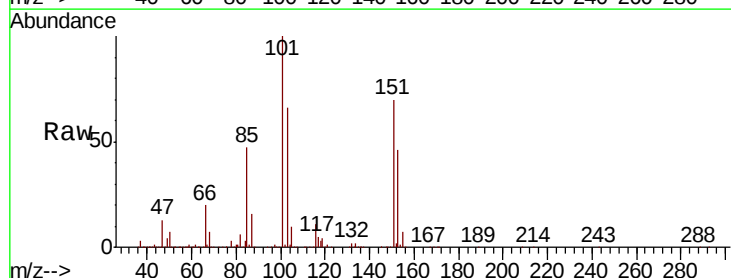
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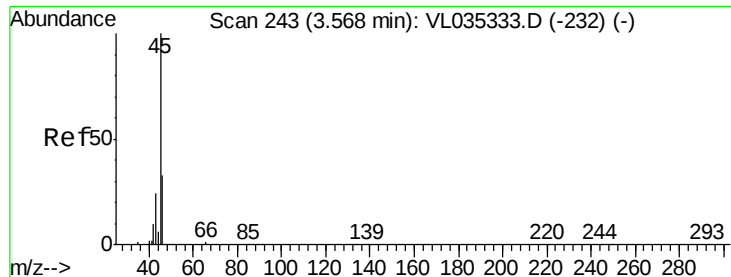
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.019 ppbv
 RT: 4.45 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion:101 Resp: 1459242
 Ion Ratio Lower Upper
 101 100
 151 73.8 59.5 89.3





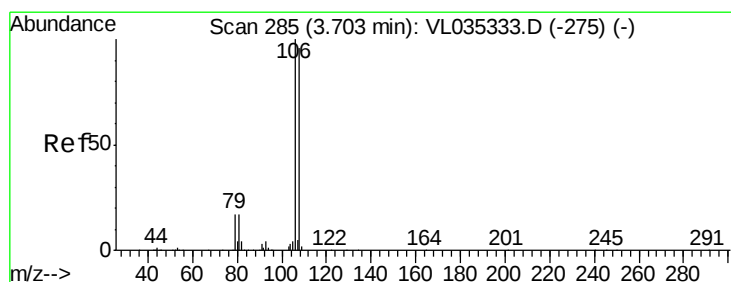
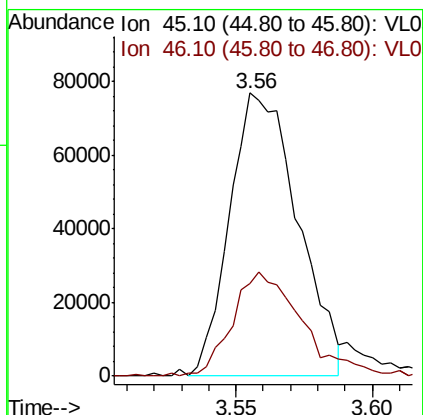
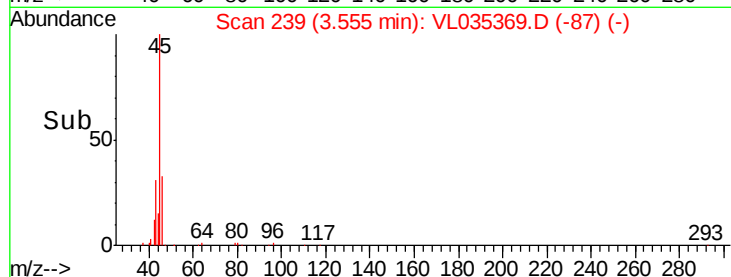
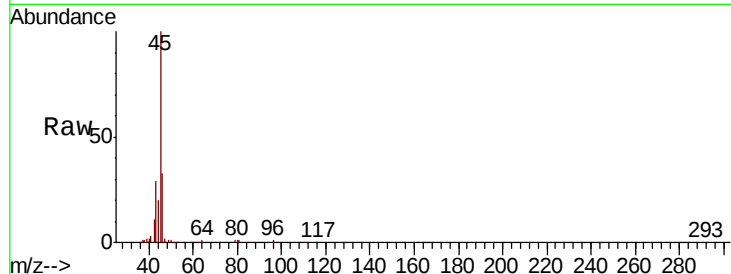
#13
Ethanol
Concen: 7.241 ppbv
RT: 3.56 min Scan# 239
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.0	15.2	61.0

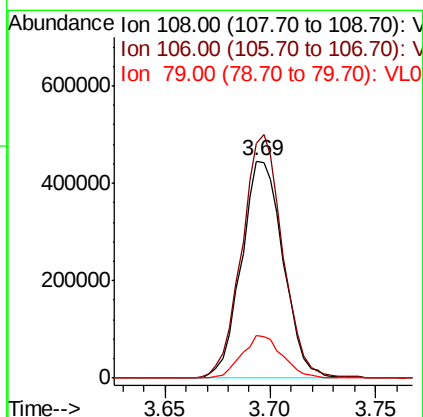
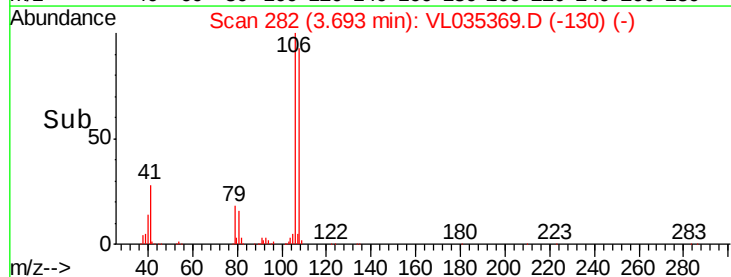
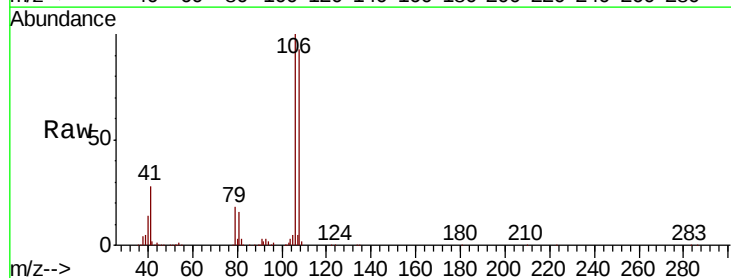
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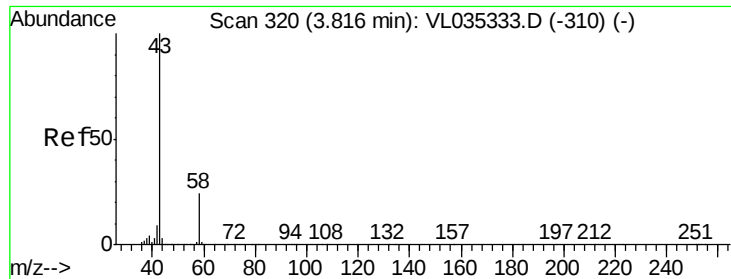
MMDadoda
8/7/2020 12:54:47 PM



#14
Bromoethene
Concen: 9.455 ppbv
RT: 3.69 min Scan# 282
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
108	100		
106	109.9	85.0	127.6
79	19.2	15.0	22.6





#15

Acetone

Concen: 9.626 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1795620

Ion Ratio Lower Upper

43 100

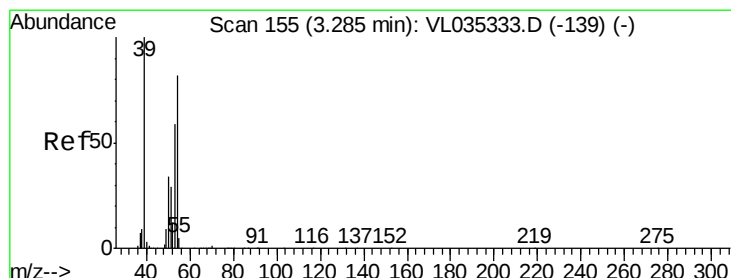
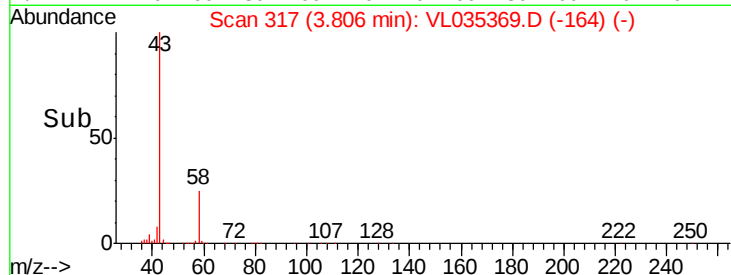
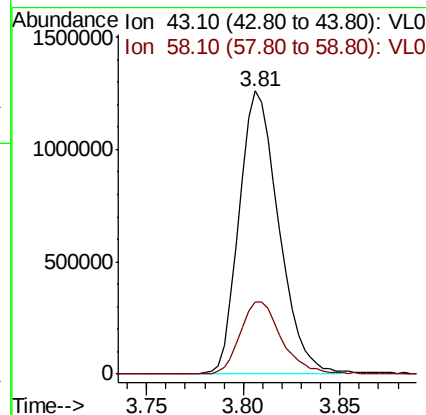
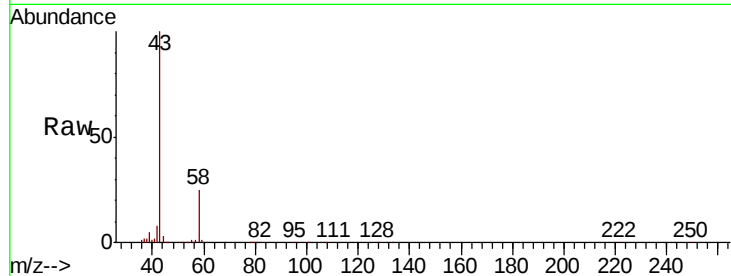
58 26.9 21.0 31.4

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#16

1,3-Butadiene

Concen: 8.621 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.01 min

Lab File: VL035369.D

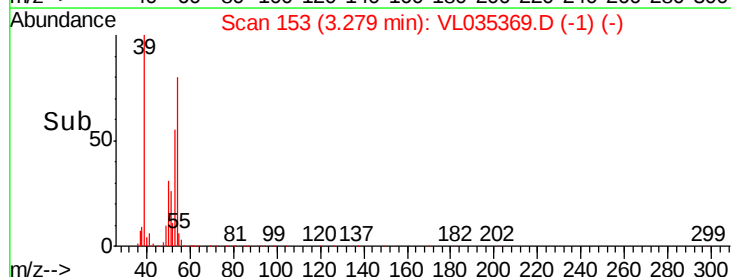
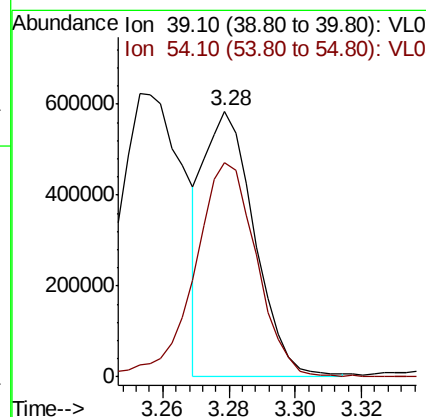
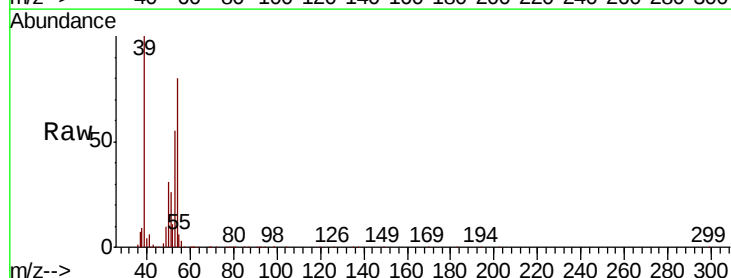
Acq: 7 Aug 2020 5:03

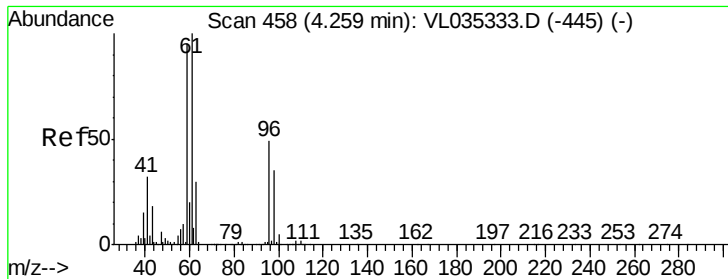
Tgt Ion: 39 Resp: 618952

Ion Ratio Lower Upper

39 100

54 99.6 64.4 96.6#





#17

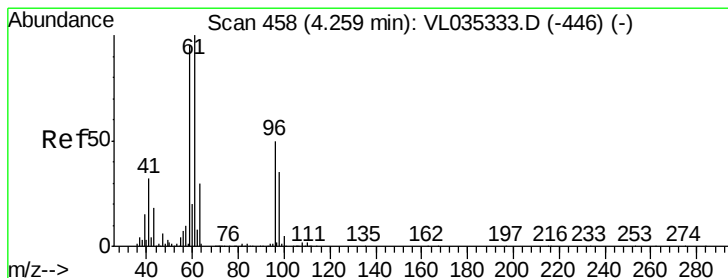
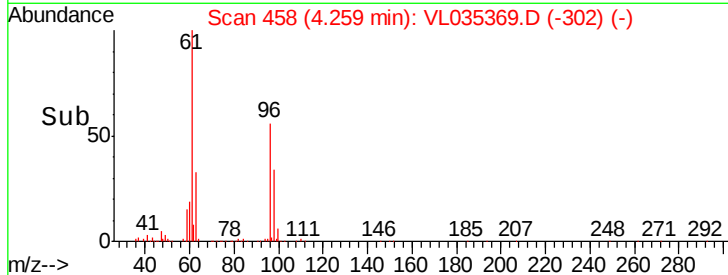
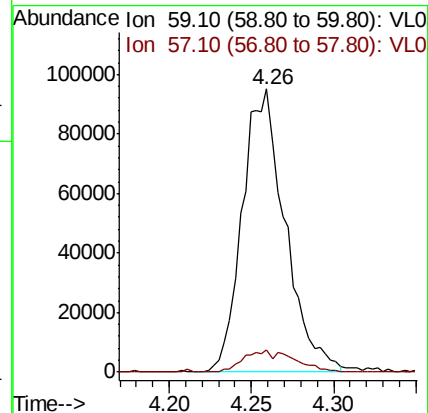
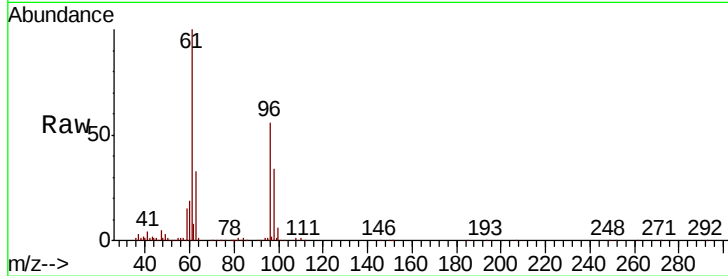
tert-Butyl alcohol
Concen: 1.003 ppbv
RT: 4.26 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.8	13.2

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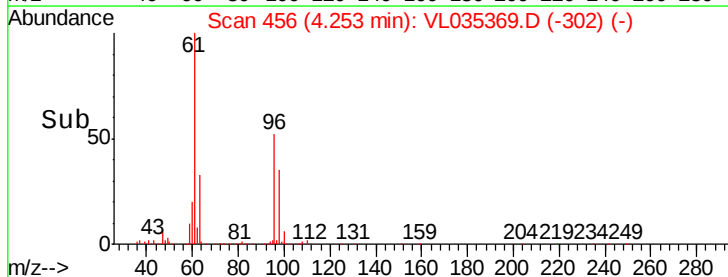
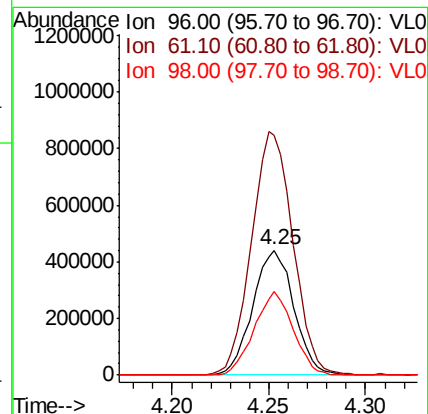
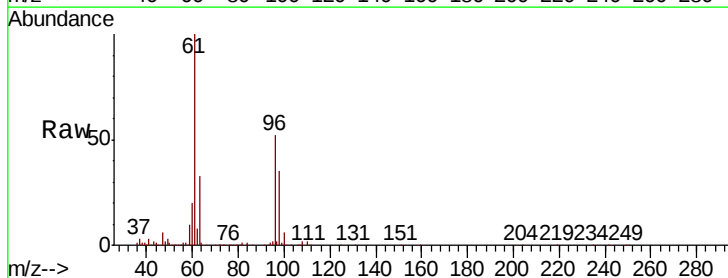
MMDadoda
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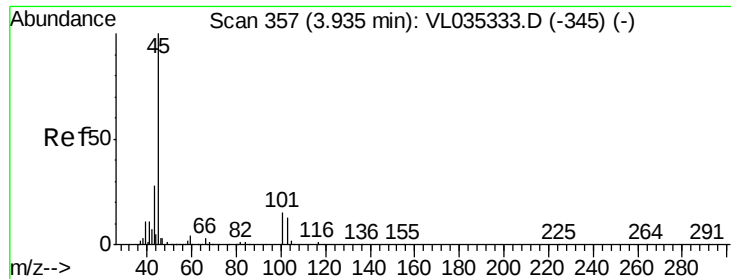


#18

1,1-Dichloroethene
Concen: 9.375 ppbv
RT: 4.25 min Scan# 456
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	192.2	161.4	242.2
98	66.6	56.0	84.0





#19

Isopropyl Alcohol

Concen: 8.134 ppbv

RT: 3.92 min Scan# 354

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 961781

Ion Ratio Lower Upper

45 100

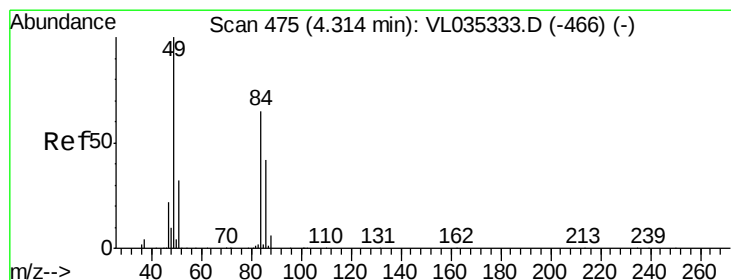
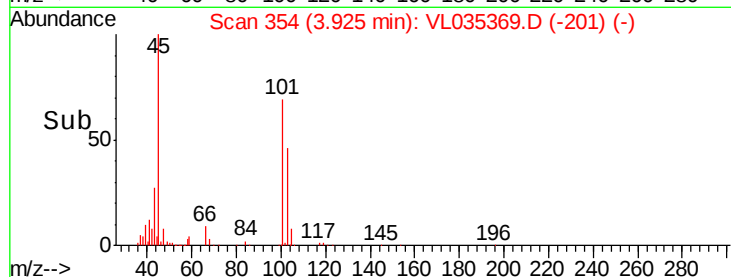
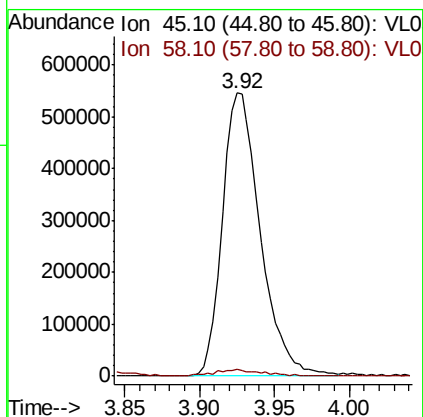
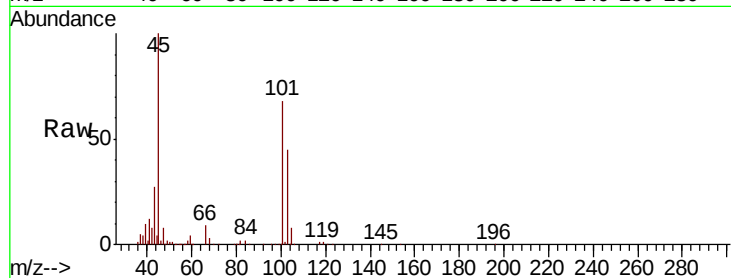
58 3.2 1.9 2.9#

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#20

Methylene Chloride

Concen: 7.829 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Tgt Ion: 84 Resp: 595580

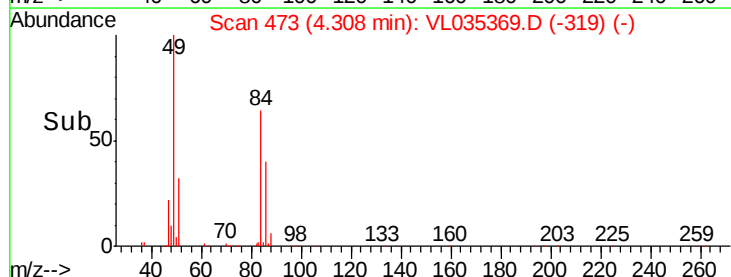
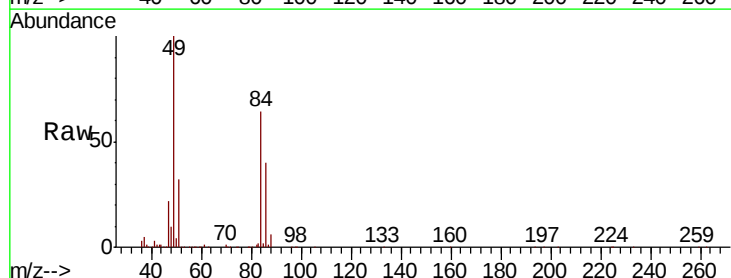
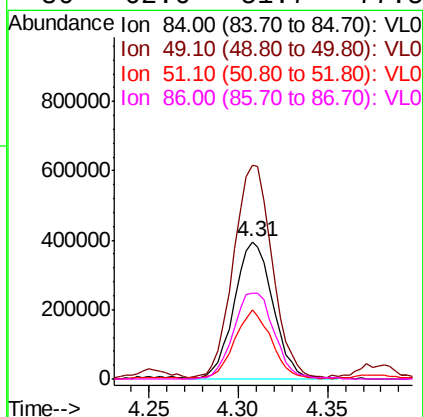
Ion Ratio Lower Upper

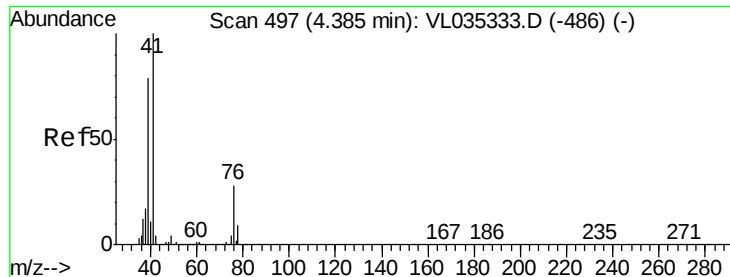
84 100

49 155.1 122.8 184.2

51 49.8 40.1 60.1

86 62.6 51.7 77.5





#21

Allvl Chloride

Concen: 10.154 ppbv

RT: 4.38 min Scan# 494

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

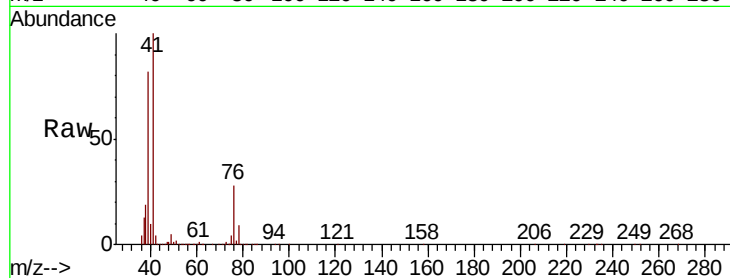
ClientSampleId :

VSTDCCC010EC

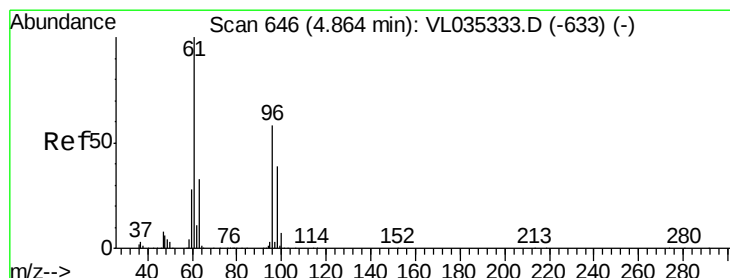
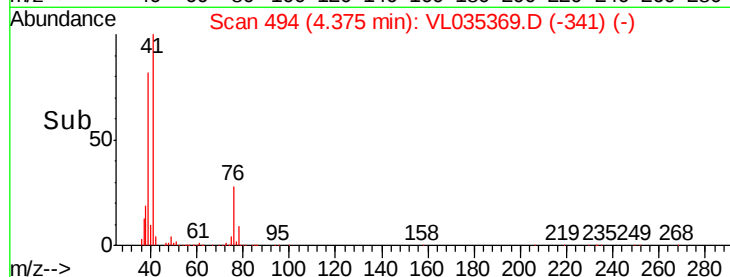
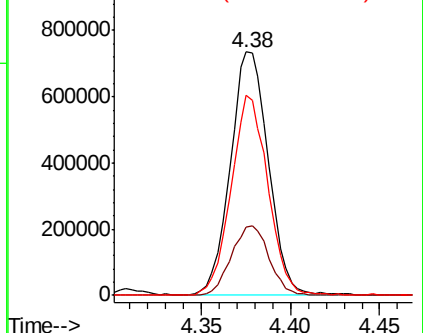
Tot Ion:	41	Resp:	1085260
Ion	Ratio	Lower	Upper
41	100		
76	28.5	23.8	35.6
39	79.9	65.0	97.6

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.408 ppbv

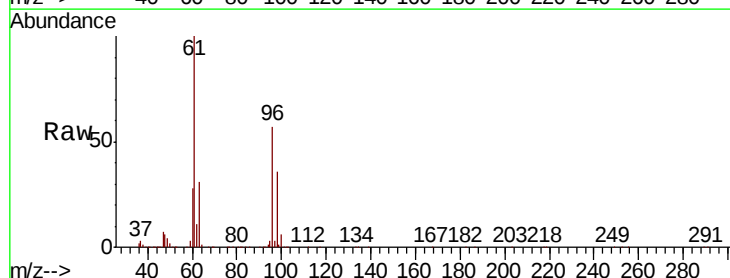
RT: 4.85 min Scan# 643

Delta R.T. -0.01 min

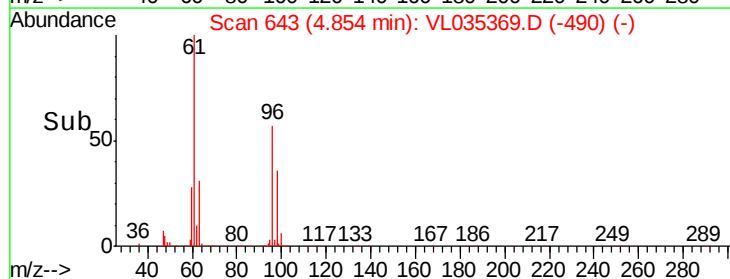
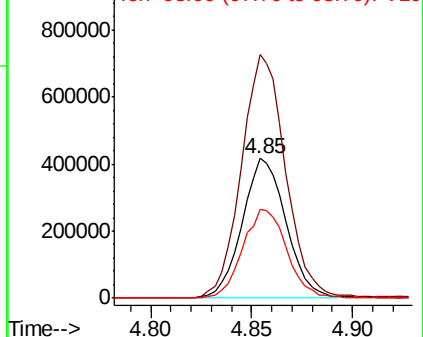
Lab File: VL035369.D

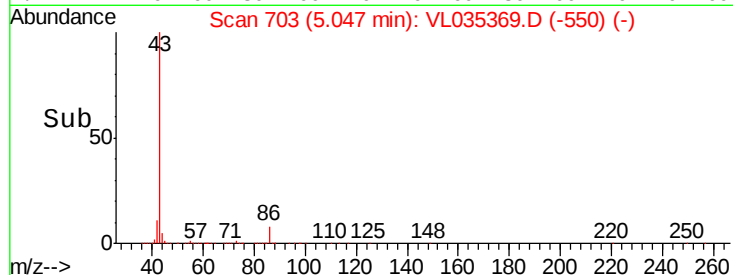
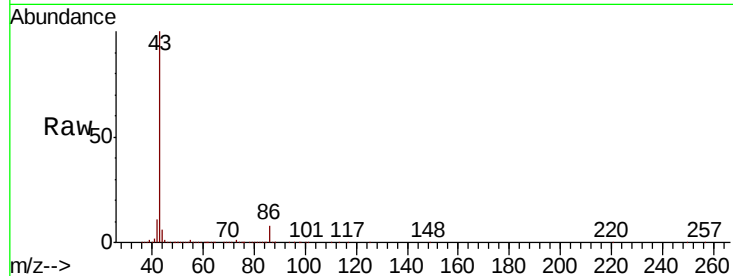
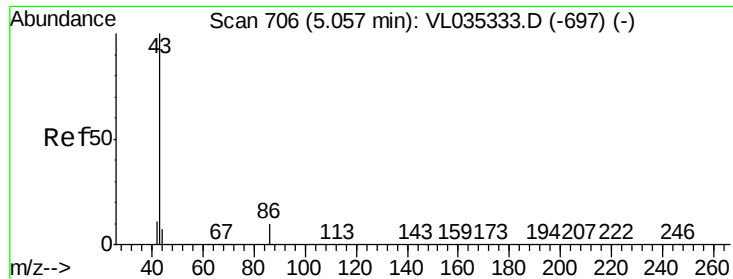
Acq: 7 Aug 2020 5:03

Tgt Ion:	96	Resp:	633828
Ion	Ratio	Lower	Upper
96	100		
61	174.1	138.5	207.7
98	63.2	54.3	81.5



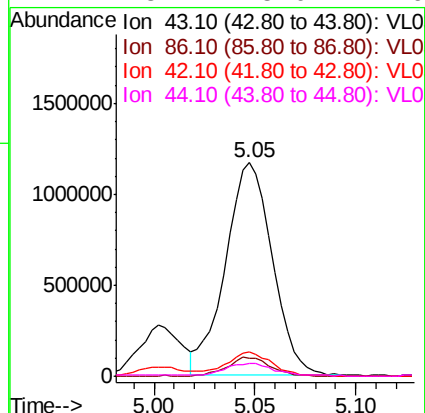
Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23
 Vinyl Acetate
 Concen: 10.659 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

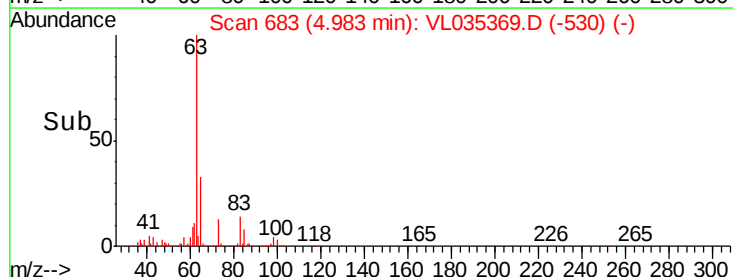
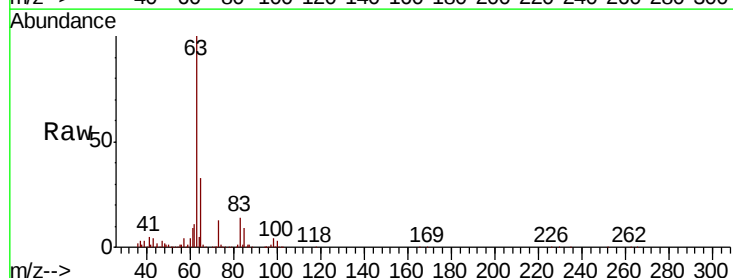
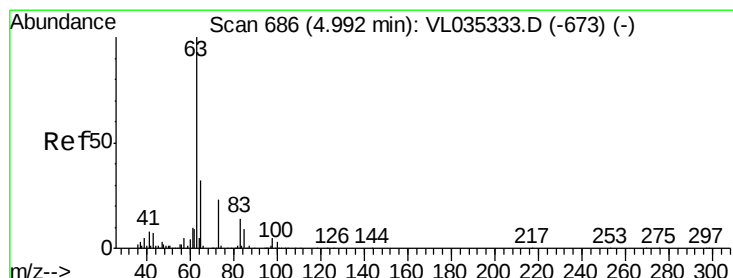
Tot Ion	43	Resp	1906457
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.9	10.3
42	11.2	8.8	13.2
44	5.7	5.0	7.6



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

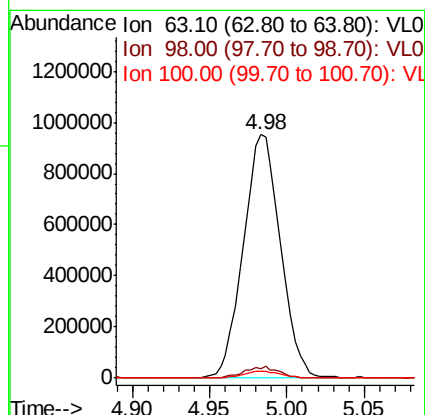
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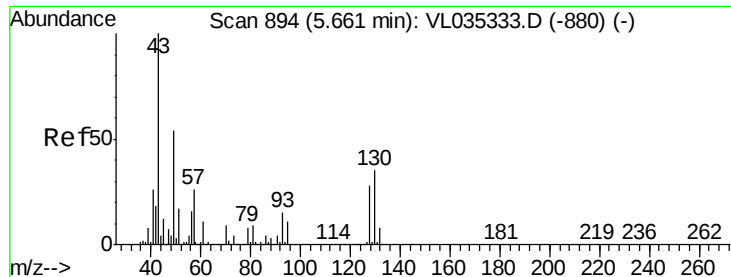
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#24
 1,1-Dichloroethane
 Concen: 9.437 ppbv
 RT: 4.98 min Scan# 683
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	63	Resp	1586257
Ion	Ratio	Lower	Upper
63	100		
98	3.6	2.5	7.5
100	2.7	1.4	4.2





#25

Ethyl Acetate

Concen: 9.570 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2712487

Ion Ratio Lower Upper

43 100

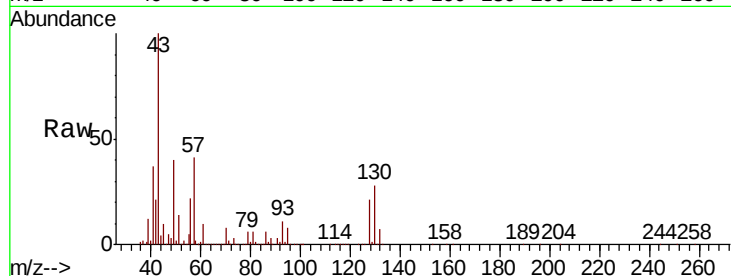
45 10.0 8.5 12.7

61 9.7 8.1 12.1

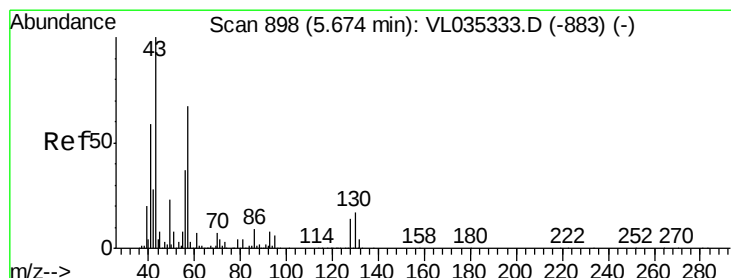
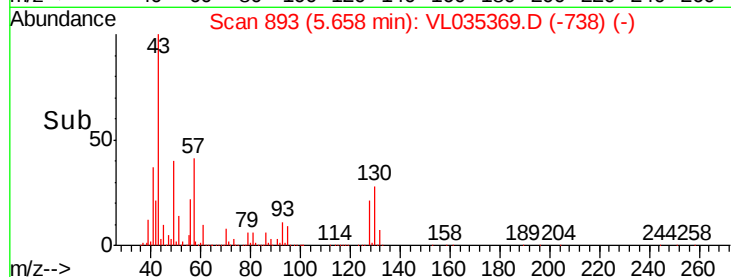
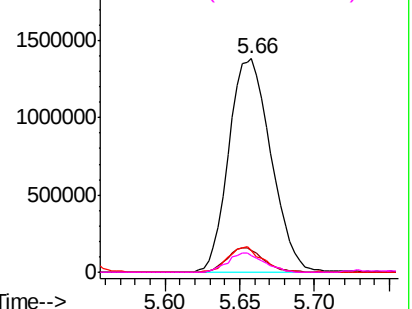
70 7.6 6.5 9.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.900 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Tgt Ion: 57 Resp: 1217125

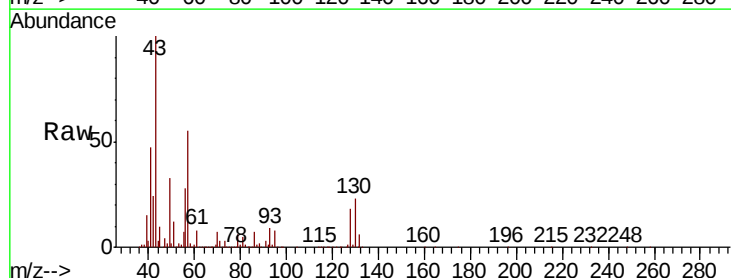
Ion Ratio Lower Upper

57 100

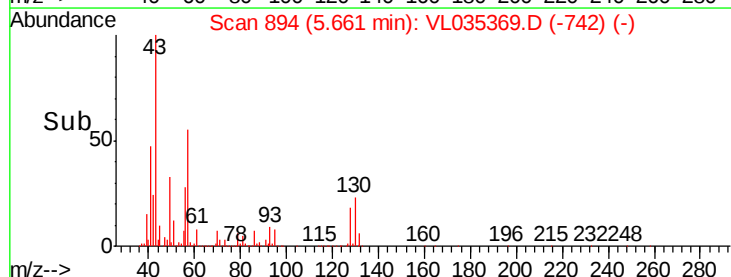
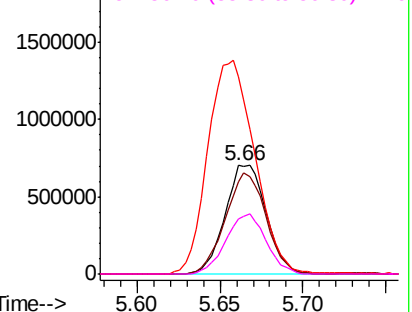
41 91.8 75.2 112.8

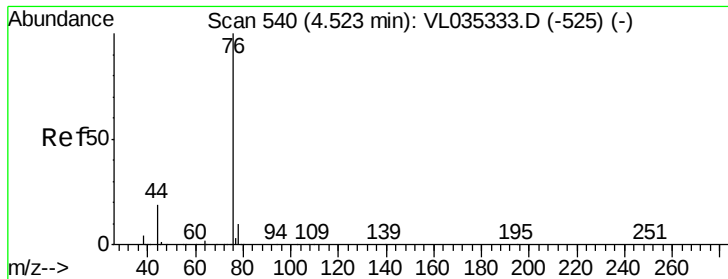
43 222.9 180.6 270.8

56 54.1 43.0 64.6



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.013 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1721493

Ion Ratio Lower Upper

76 100

44 20.1 15.4 23.2

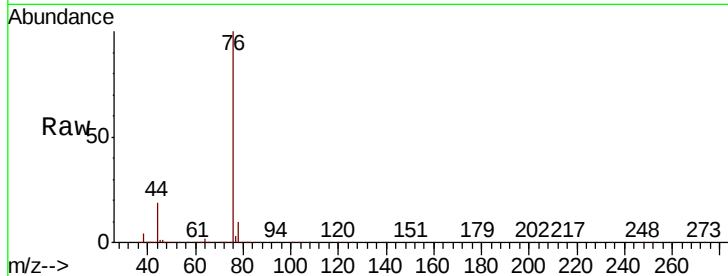
78 9.6 7.7 11.5

Manual Integrations

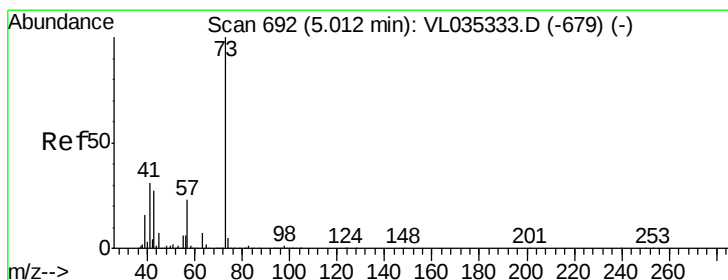
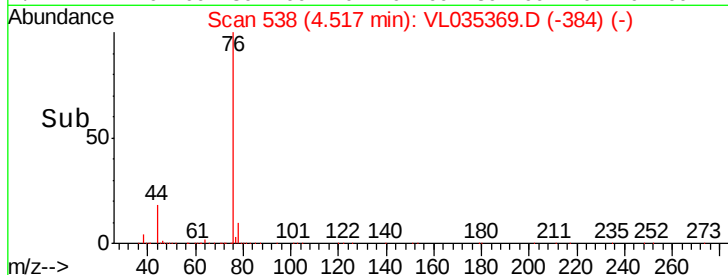
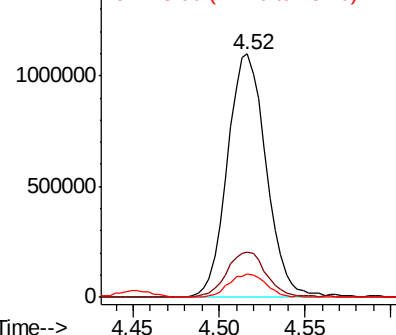
APPROVED

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Abundance Ion 76.00 (75.70 to 76.70): VL0
1500000
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.157 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL035369.D

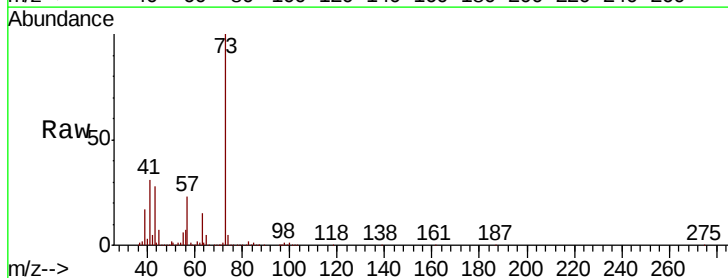
Acq: 7 Aug 2020 5:03

Tgt Ion: 73 Resp: 1636989

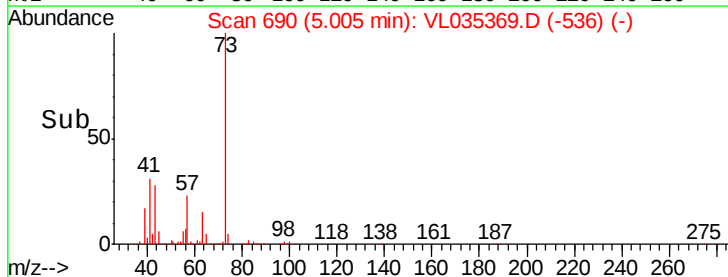
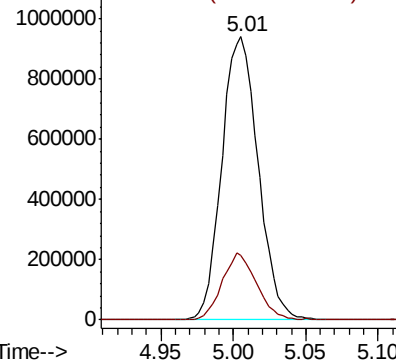
Ion Ratio Lower Upper

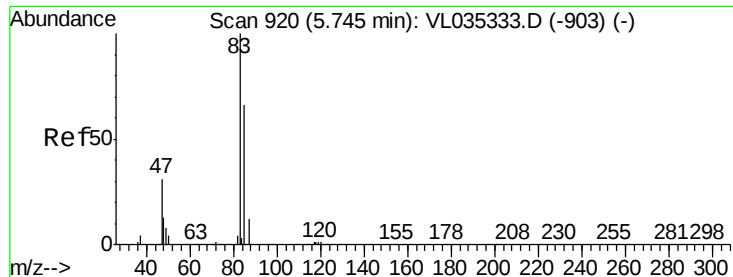
73 100

57 22.6 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
1000000
Ion 57.10 (56.80 to 57.80): VL0





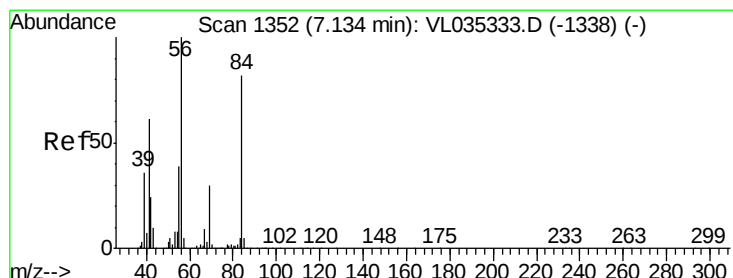
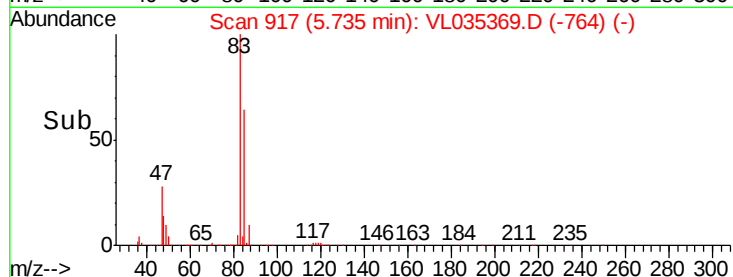
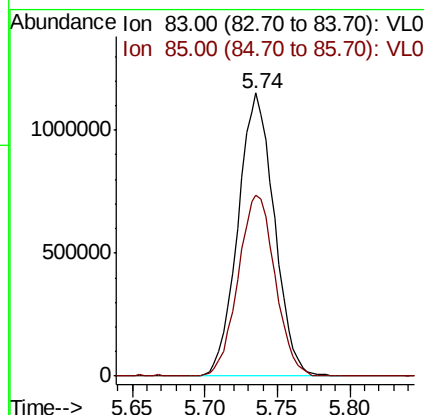
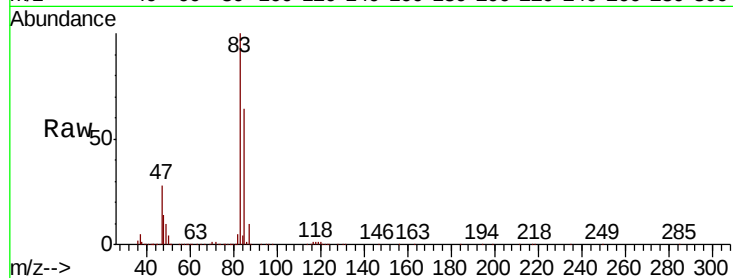
#29
Chloroform
Concen: 9.420 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1996577
Ion Ratio Lower Upper
83 100
85 63.8 52.9 79.3

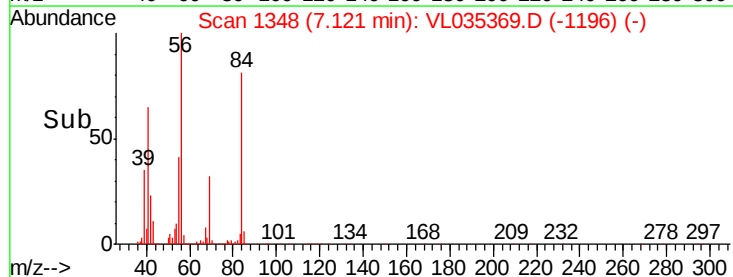
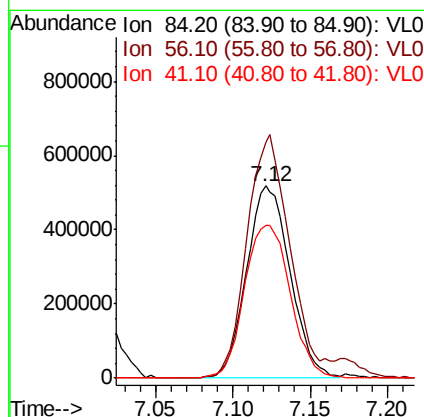
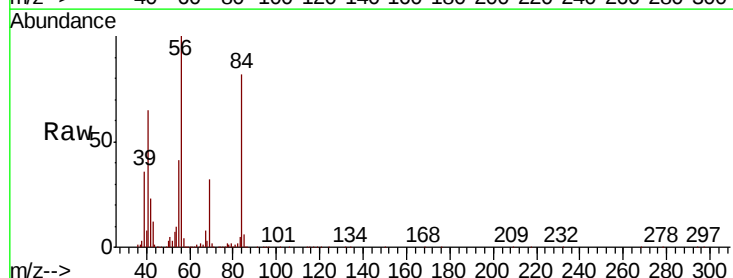
Manual Integrations
APPROVED

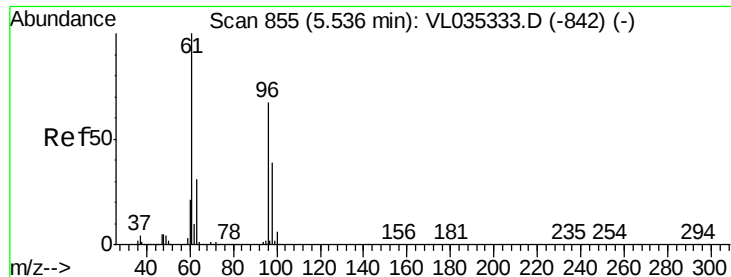
MMDadoda
8/7/2020 12:54:47 PM



#30
Cyclohexane
Concen: 10.901 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 84 Resp: 1016290
Ion Ratio Lower Upper
84 100
56 131.6 104.7 157.1
41 83.9 64.2 96.2





#31

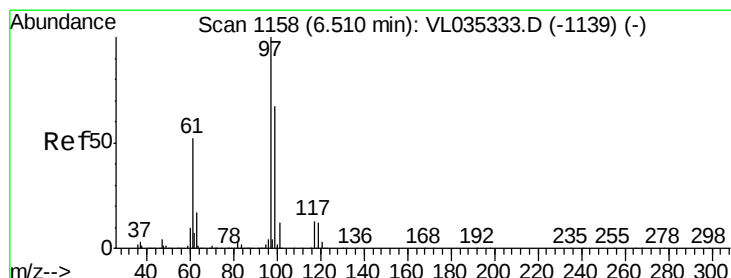
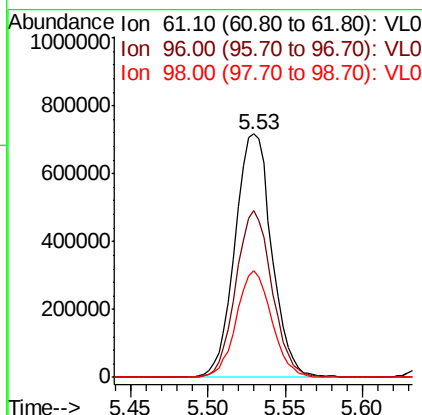
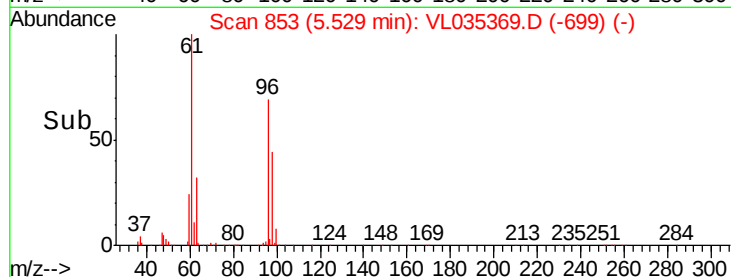
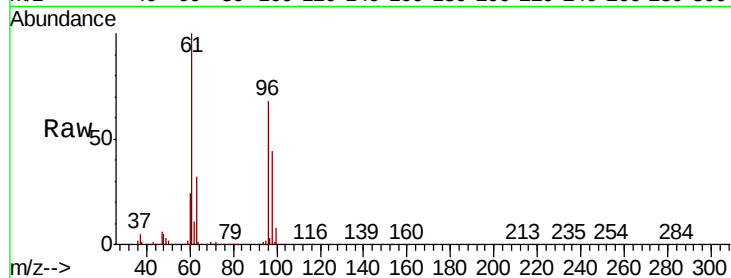
cis-1,2-Dichloroethene
Concen: 10.834 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.3	53.6	80.4
98	43.8	31.0	46.4

Manual Integrations
APPROVED

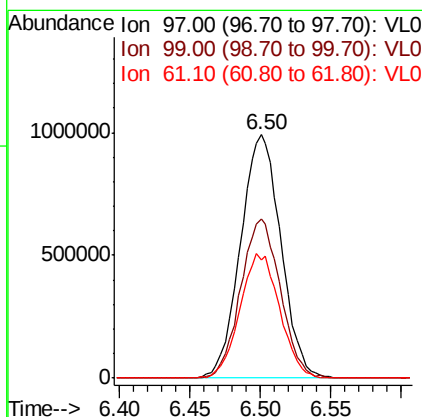
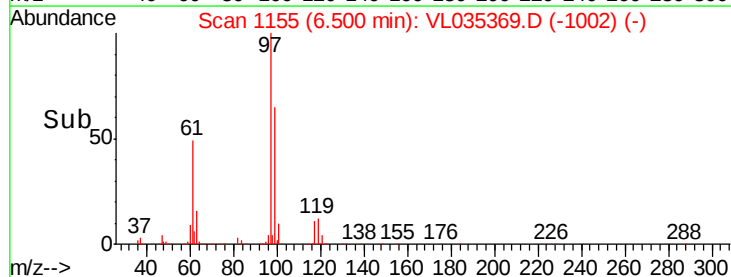
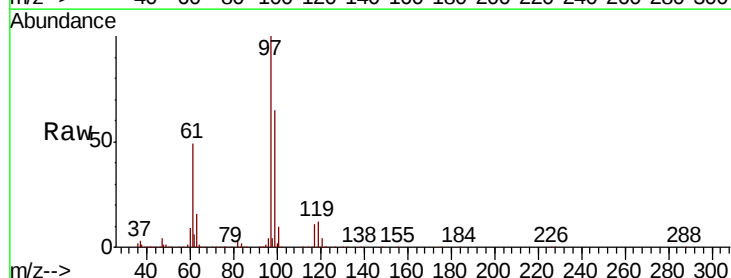
MMDadoda
8/7/2020 12:54:47 PM

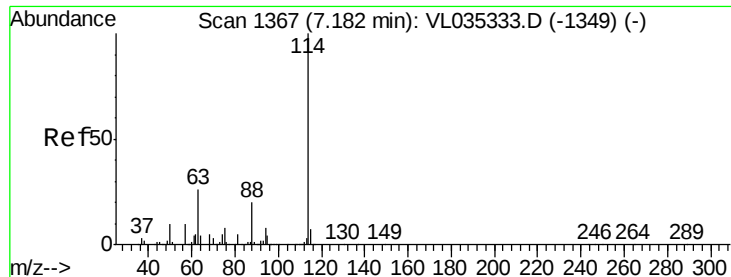


#32

1,1,1-Trichloroethane
Concen: 8.905 ppbv
RT: 6.50 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.2	78.4
61	50.7	40.9	61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 3276578

Ion Ratio Lower Upper

114 100

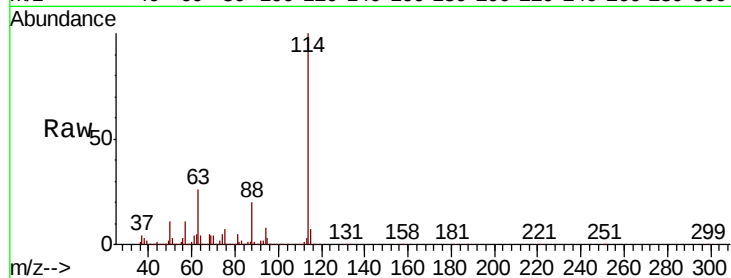
63 26.6 21.3 31.9

88 19.3 15.3 22.9

Manual Integrations
APPROVED

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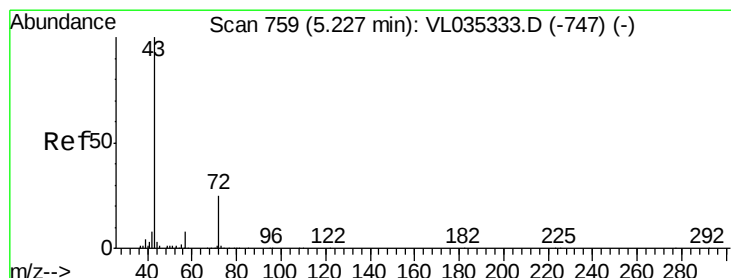
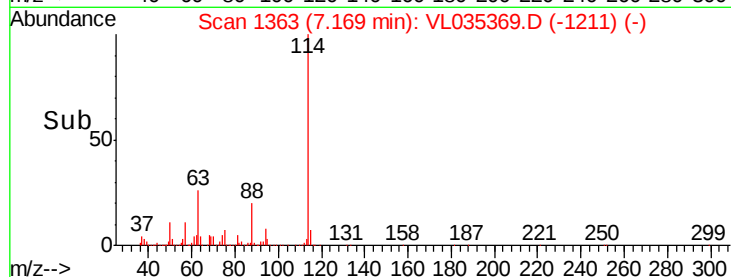
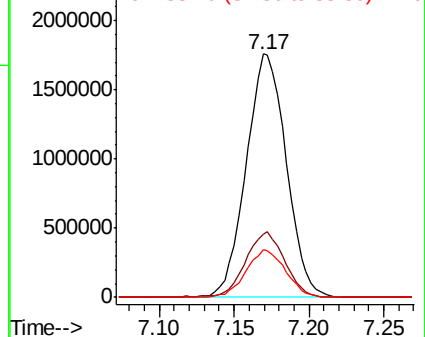
8/7/2020 12:54:47 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.530 ppbv

RT: 5.22 min Scan# 756

Delta R.T. -0.01 min

Lab File: VL035369.D

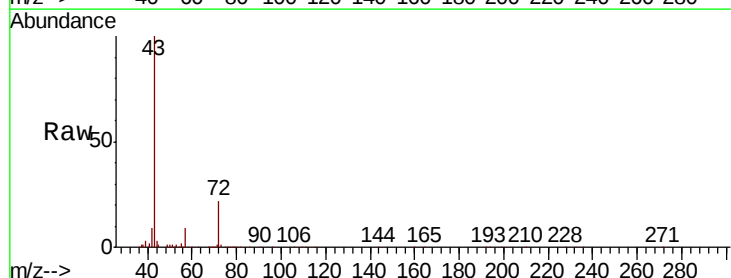
Acq: 7 Aug 2020 5:03

Tgt Ion: 43 Resp: 1698882

Ion Ratio Lower Upper

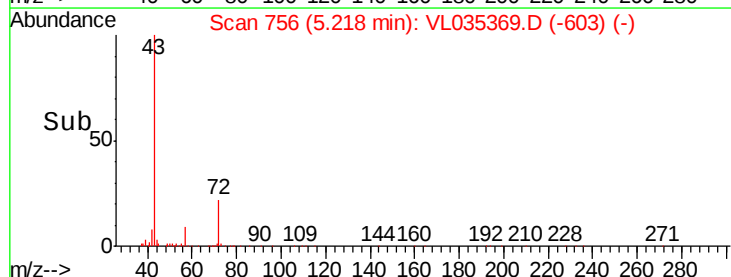
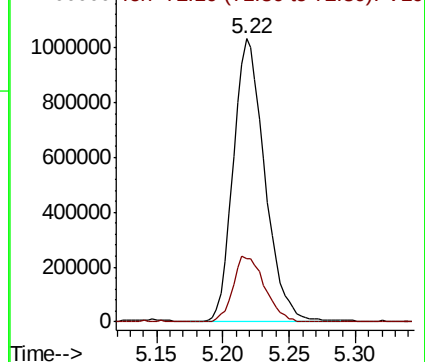
43 100

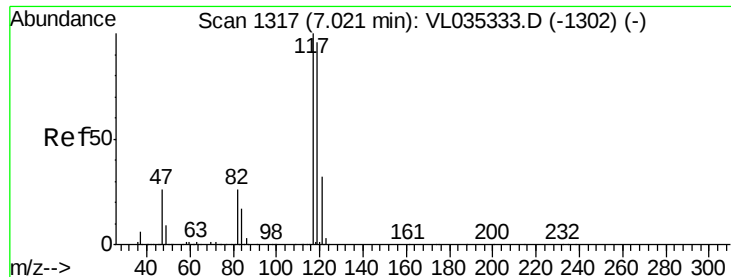
72 23.5 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.422 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2124524

Ion Ratio Lower Upper

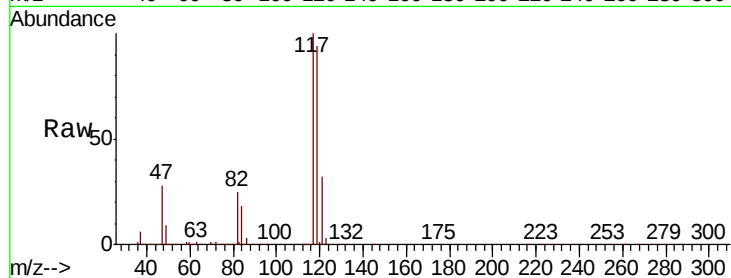
117 100

119 93.7 77.0 115.6

121 31.5 26.0 39.0

Manual Integrations
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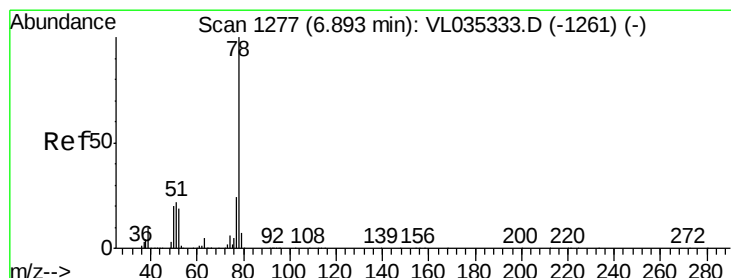
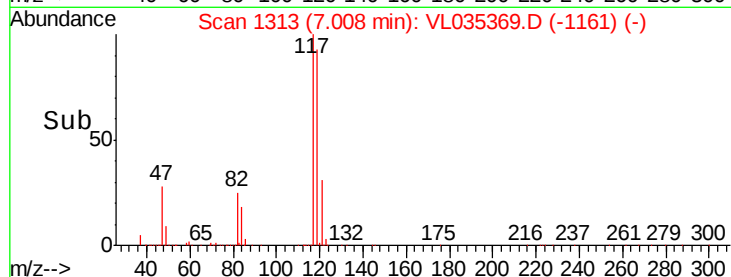
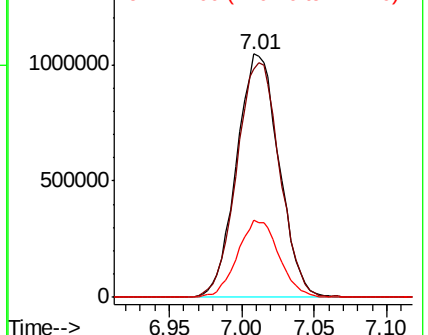
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.864 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

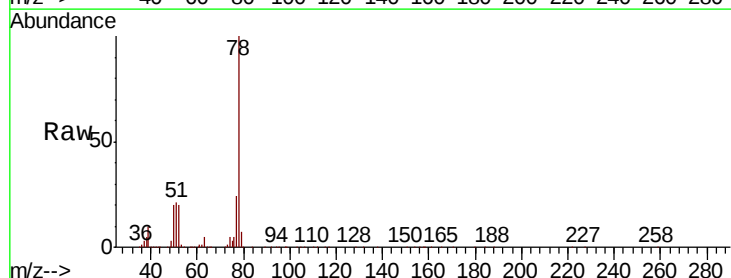
Tgt Ion: 78 Resp: 2403723

Ion Ratio Lower Upper

78 100

77 23.5 19.3 28.9

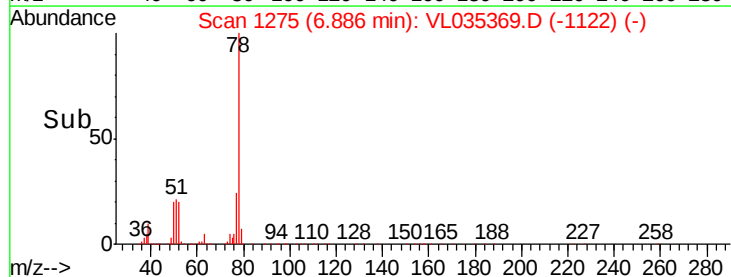
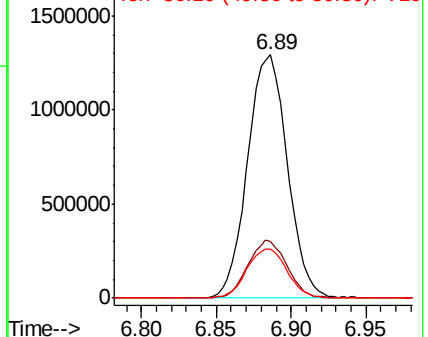
50 20.2 16.3 24.5

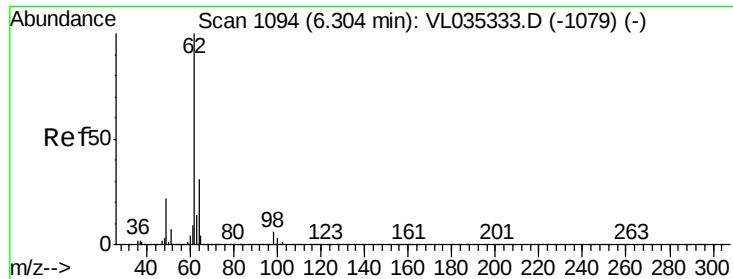


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





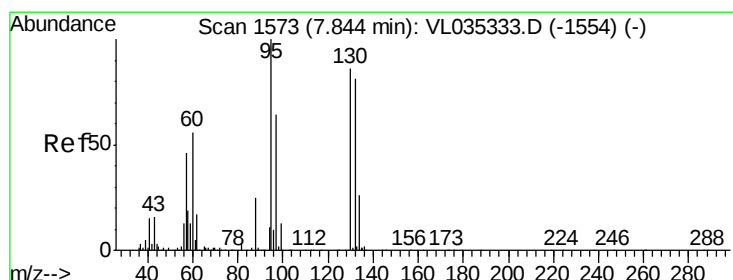
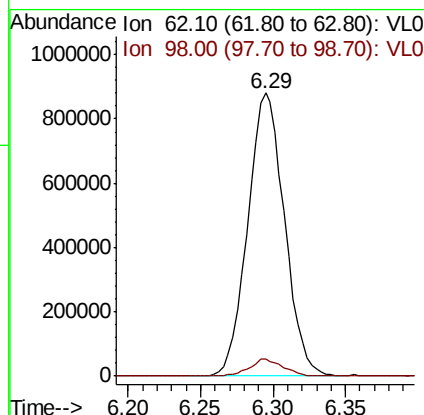
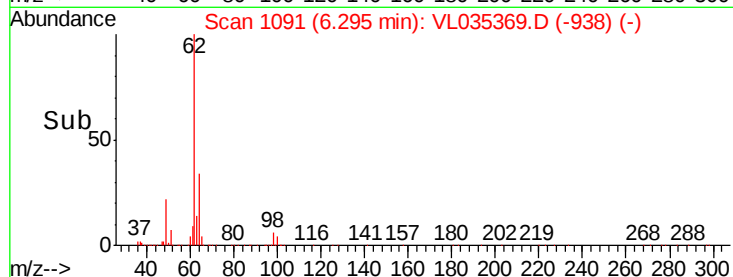
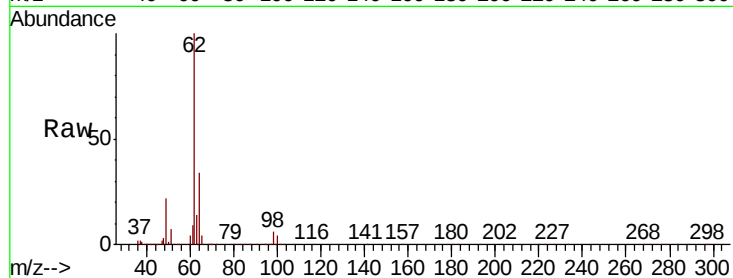
#37
1,2-Dichloroethane
Concen: 10.041 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1552062
Ion Ratio Lower Upper
62 100
98 5.6 4.6 7.0

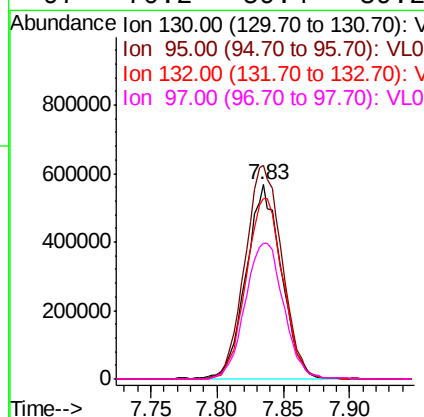
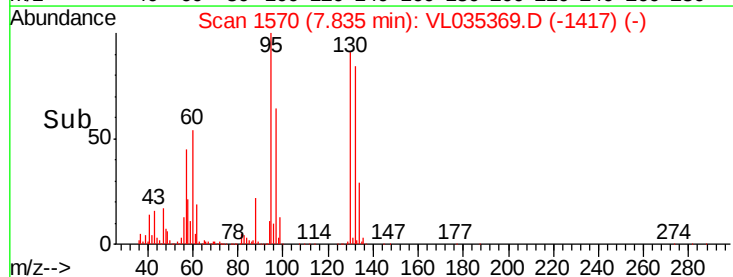
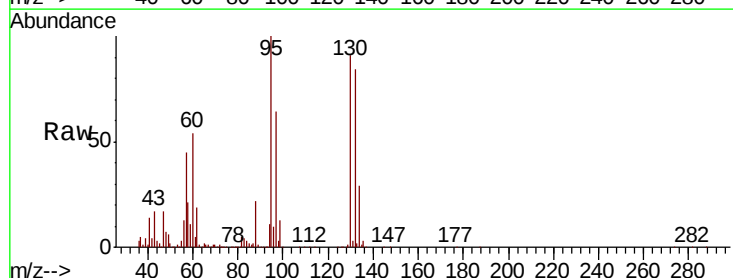
Manual Integrations
APPROVED

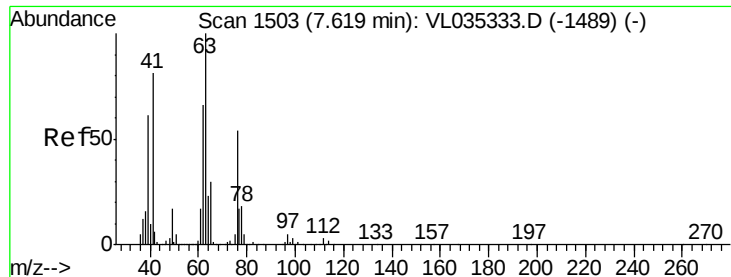
MMDadoda
8/7/2020 12:54:47 PM



#38
Trichloroethene
Concen: 10.314 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 130 Resp: 1052643
Ion Ratio Lower Upper
130 100
95 110.1 93.4 140.2
132 92.6 76.1 114.1
97 70.2 59.4 89.2





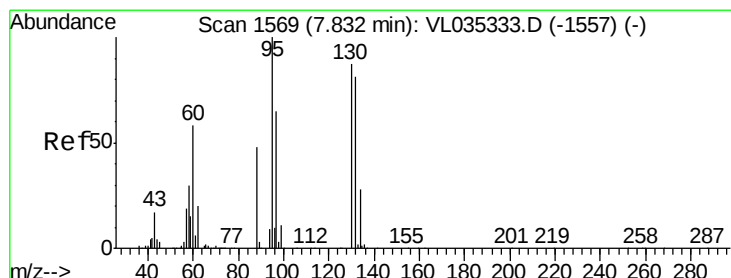
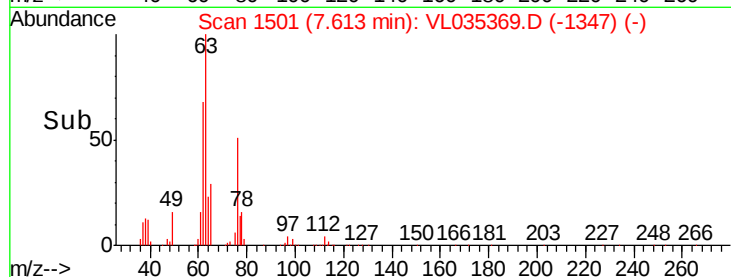
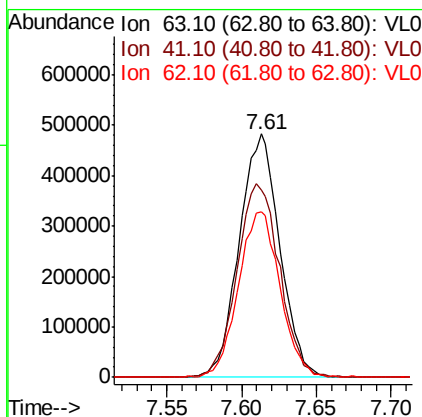
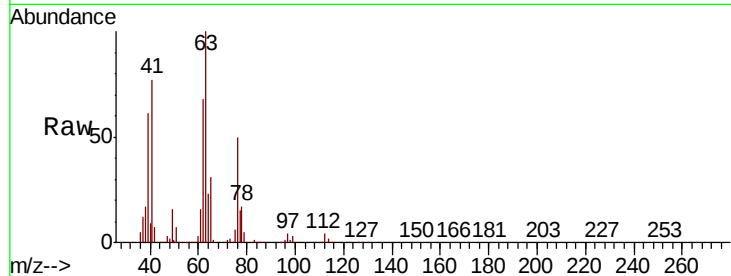
#39
 1,2-Dichloropropane
 Concen: 10.171 ppbv
 RT: 7.61 min Scan# 1501
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.6	64.4	96.6
62	67.6	52.6	78.8

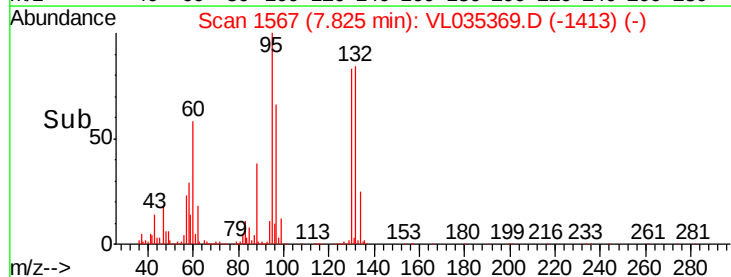
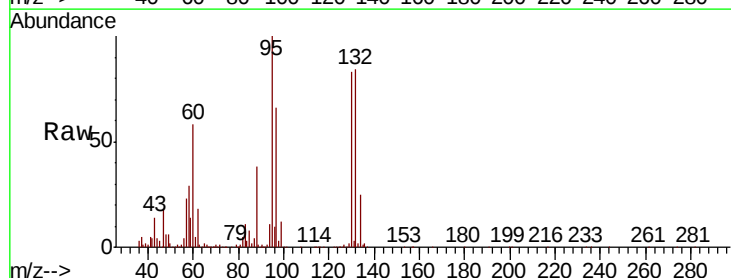
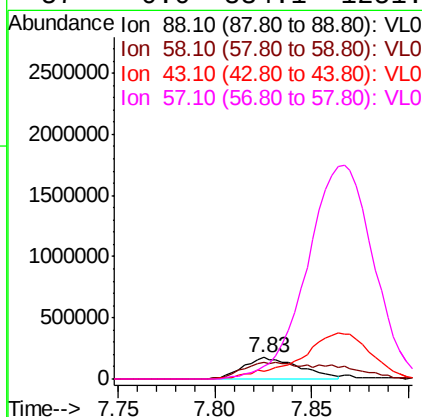
Manual Integrations
 APPROVED

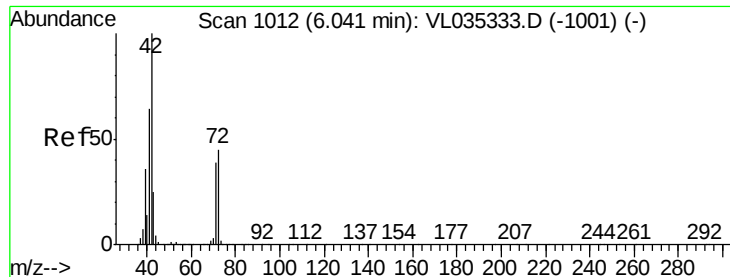
MMDadoda
 8/7/2020 12:54:47 PM



#40
 1,4-Dioxane
 Concen: 9.358 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.2	96.7	145.1
43	0.0	190.7	286.1#
57	0.0	834.1	1251.1#





#41

Tetrahydrofuran

Concen: 11.029 ppbv

RT: 6.03 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

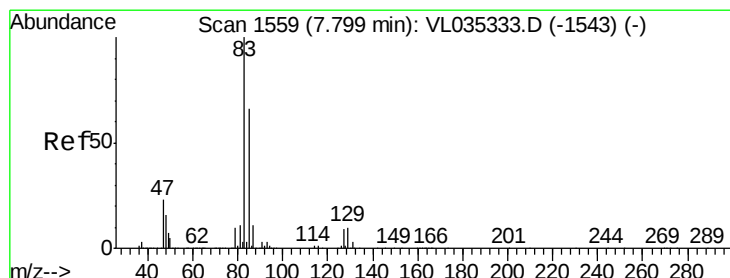
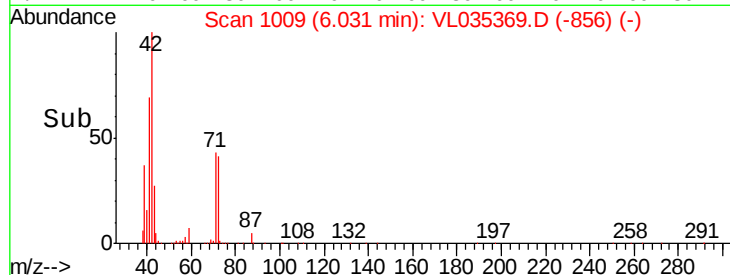
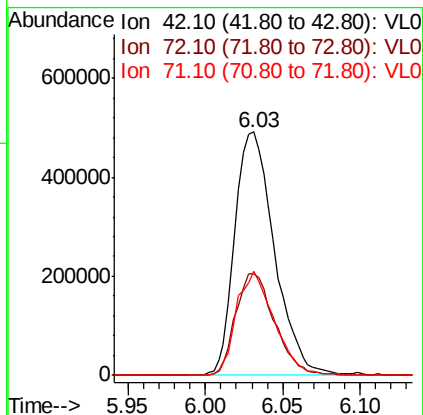
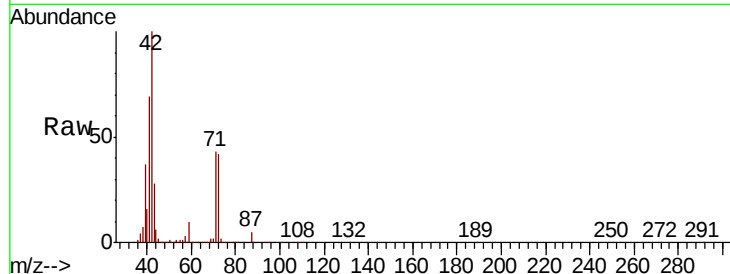
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	873170
Ion Ratio		Lower	Upper
42	100		
72	41.3	33.6	50.4
71	40.9	33.1	49.7

Manual Integrations
APPROVED

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8/7/2020 12:54:47 PM



#42

Bromodichloromethane

Concen: 10.311 ppbv

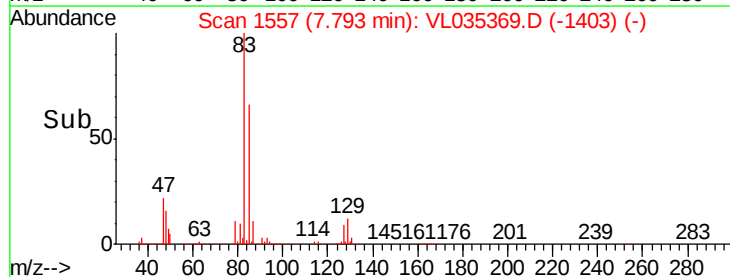
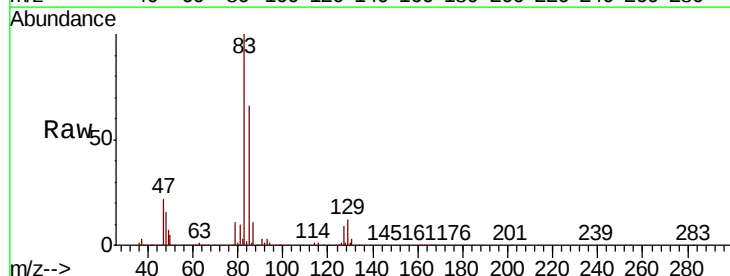
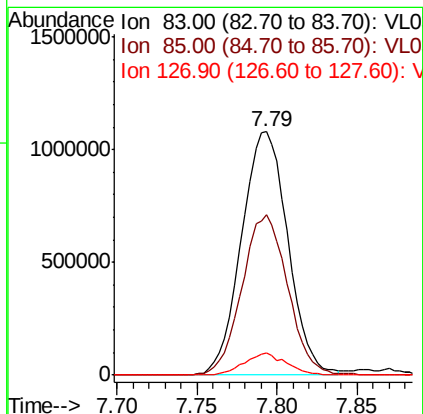
RT: 7.79 min Scan# 1557

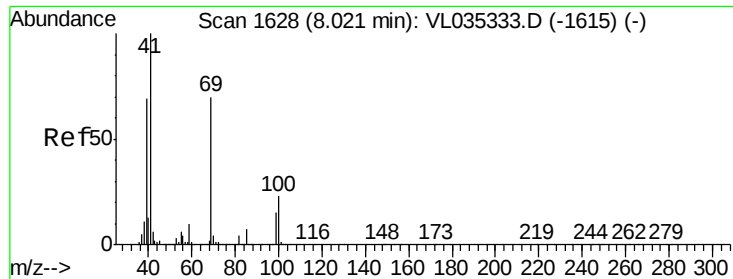
Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Tgt Ion:	83	Resp:	2140242
Ion Ratio		Lower	Upper
83	100		
85	65.6	53.1	79.7
127	8.9	6.8	10.2





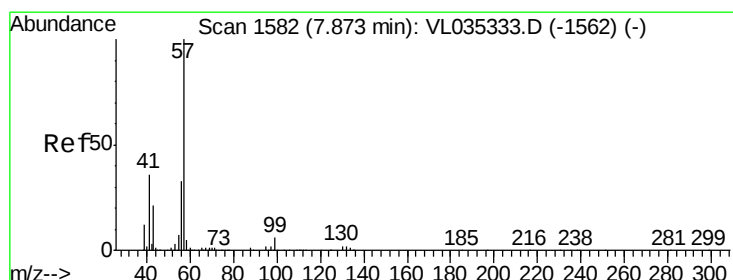
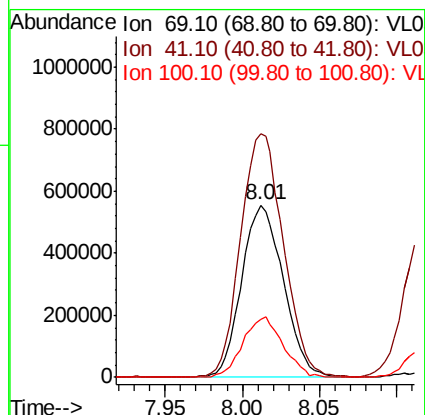
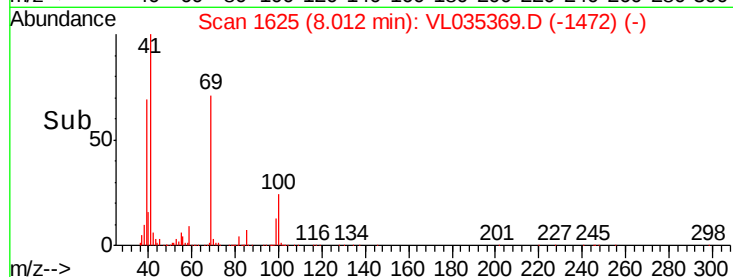
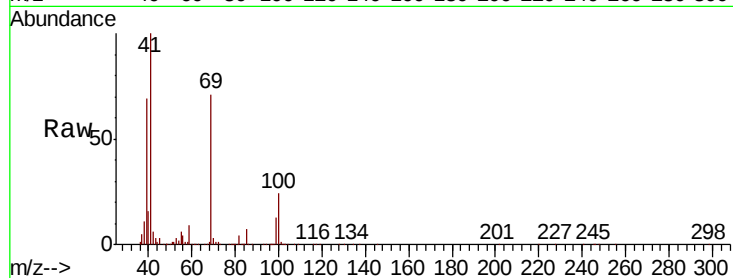
#43
Methyl Methacrylate
Concen: 11.154 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1038281
Ion Ratio Lower Upper
69 100
41 145.7 115.8 173.6
100 34.0 26.7 40.1

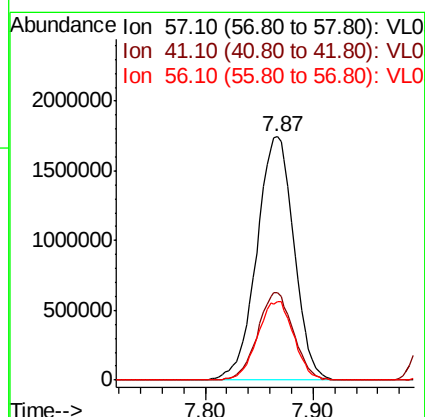
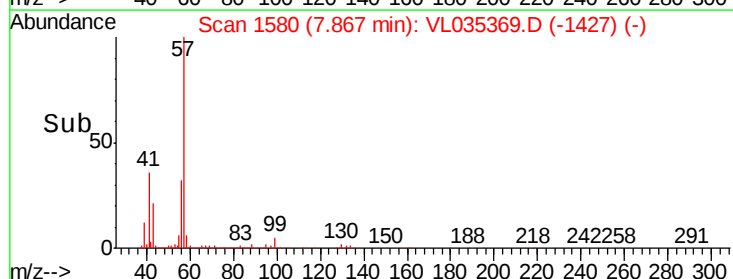
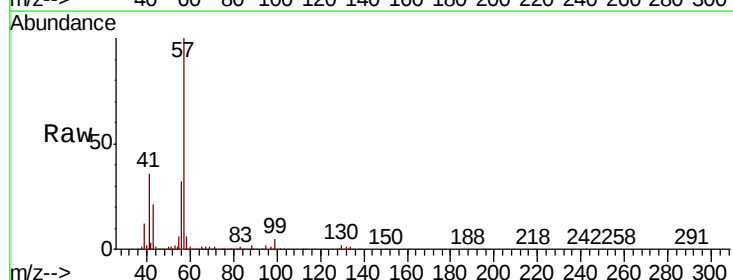
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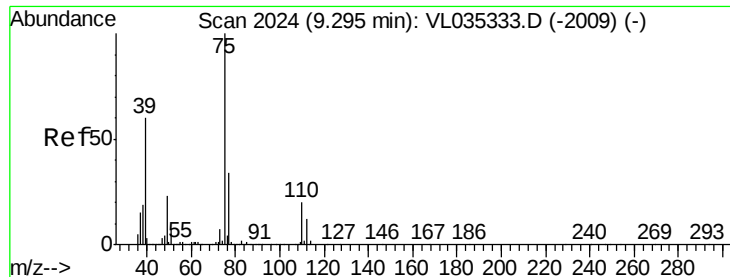
MMDadoda
8/7/2020 12:54:47 PM



#44
2,2,4-Trimethylpentane
Concen: 10.604 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 57 Resp: 4168121
Ion Ratio Lower Upper
57 100
41 34.5 27.9 41.9
56 31.7 25.4 38.0





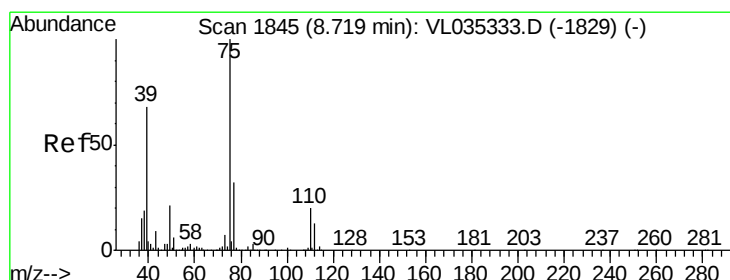
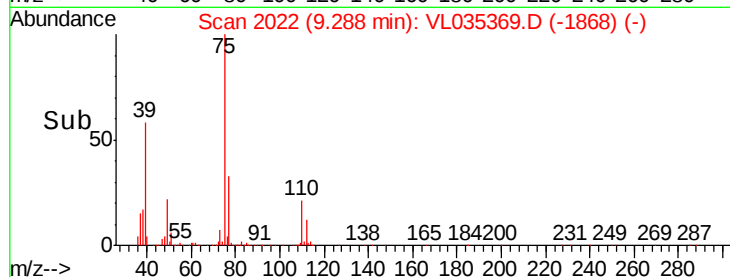
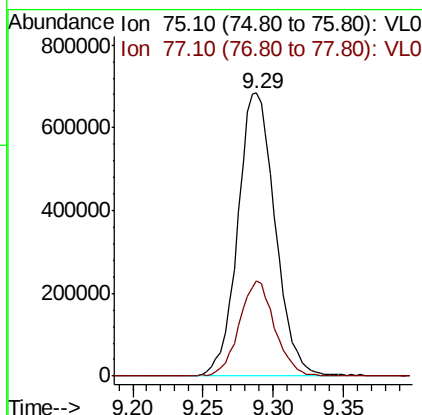
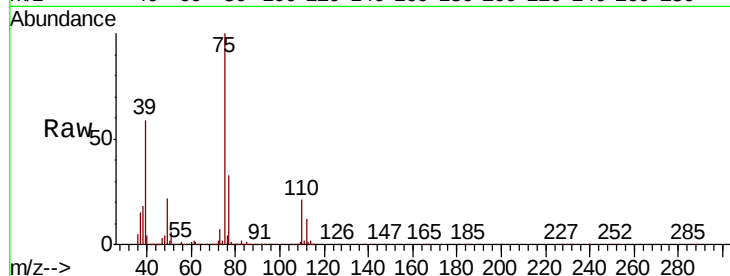
#45
t-1,3-Dichloropropene
Concen: 13.148 ppbv
RT: 9.29 min Scan# 2022
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1269575
Ion Ratio Lower Upper
75 100
77 33.5 27.0 40.6

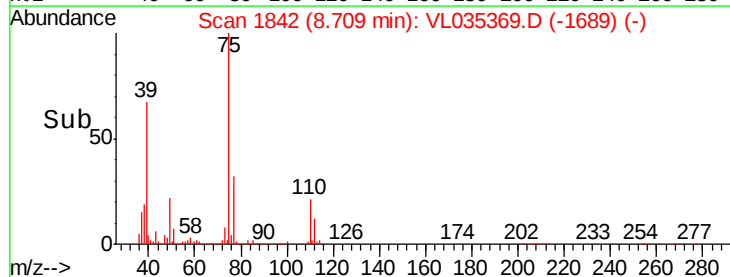
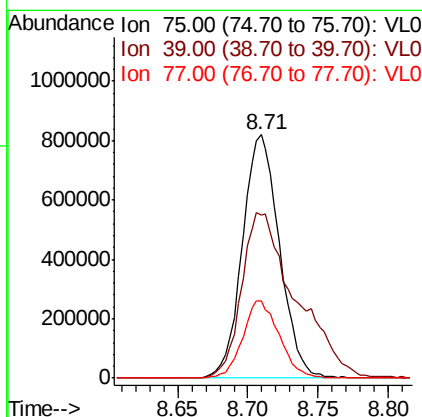
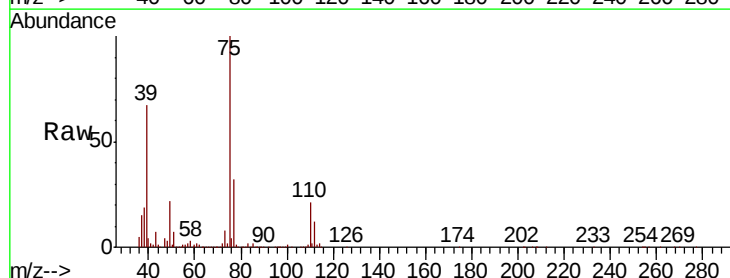
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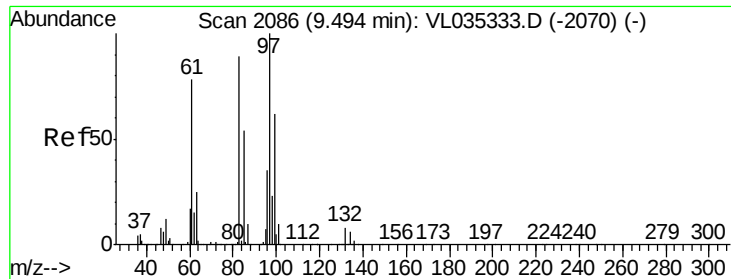
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 12.955 ppbv
RT: 8.71 min Scan# 1842
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 75 Resp: 1510694
Ion Ratio Lower Upper
75 100
39 67.0 54.2 81.2
77 31.9 25.4 38.2





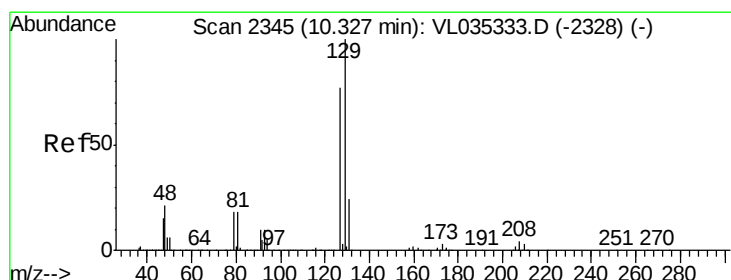
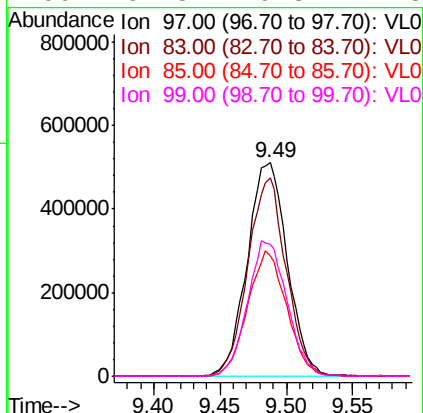
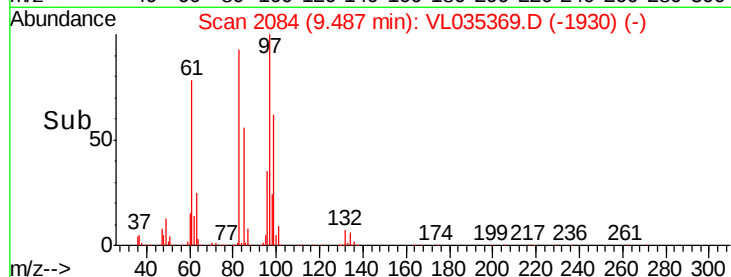
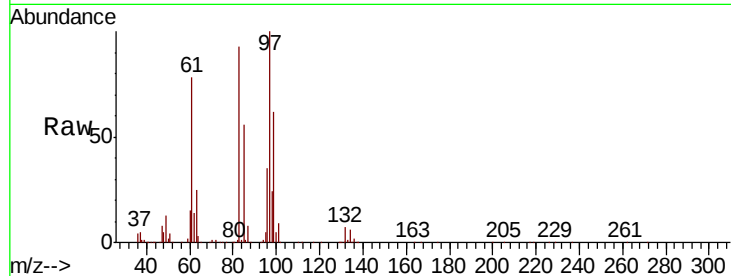
#47
 1,1,2-Trichloroethane
 Concen: 9.965 ppbv
 RT: 9.49 min Scan# 2084
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.9	71.3	106.9
85	56.5	43.3	64.9
99	61.8	49.8	74.8

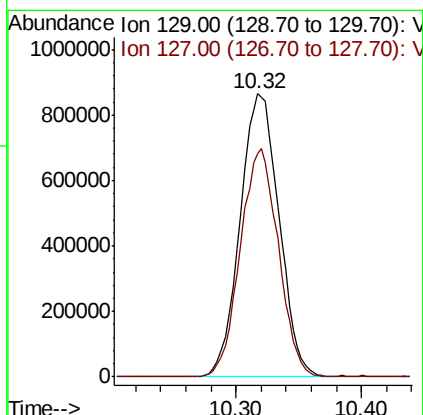
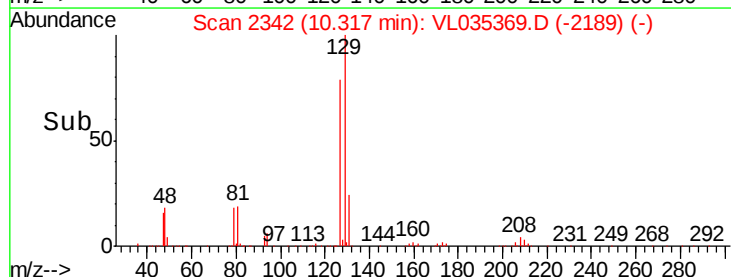
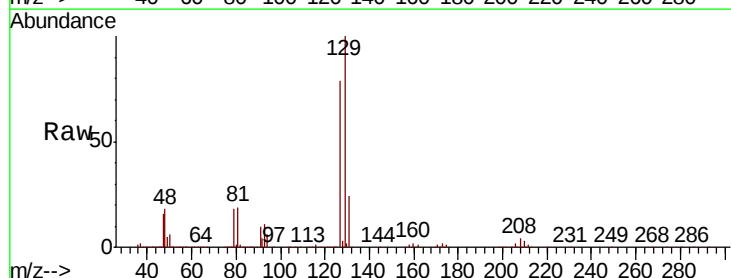
Manual Integrations
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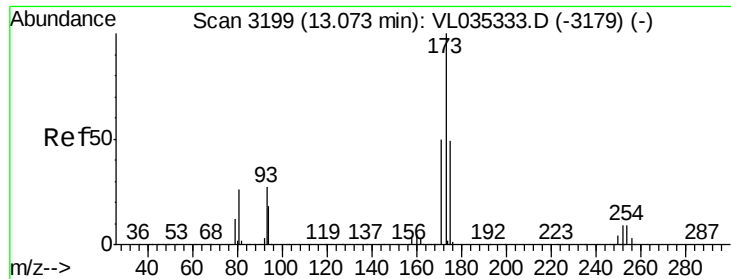
MMDadoda
 8/7/2020 12:54:47 PM



#48
 Dibromochloromethane
 Concen: 10.595 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.2





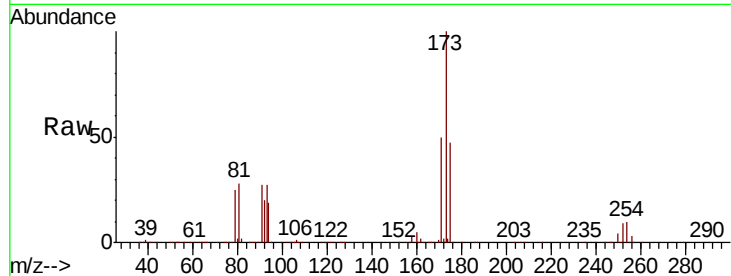
#49
Bromoform
Concen: 10.939 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.3	58.9
171	51.4	41.2	61.8

Manual Integrations
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MMDadoda
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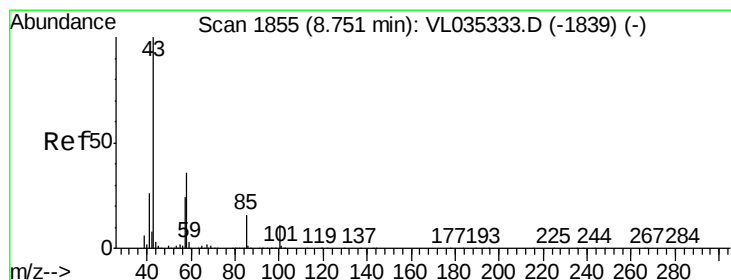
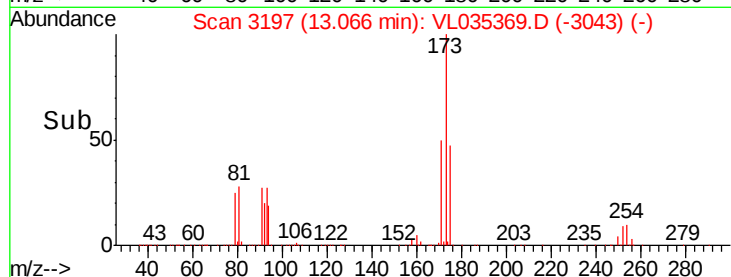
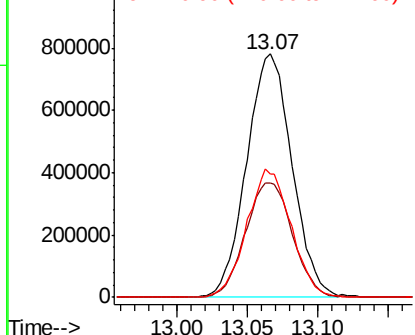


Abundance

Ion 172.90 (172.60 to 173.60): V

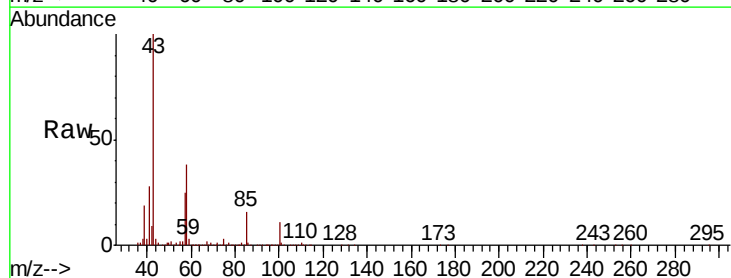
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 10.498 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

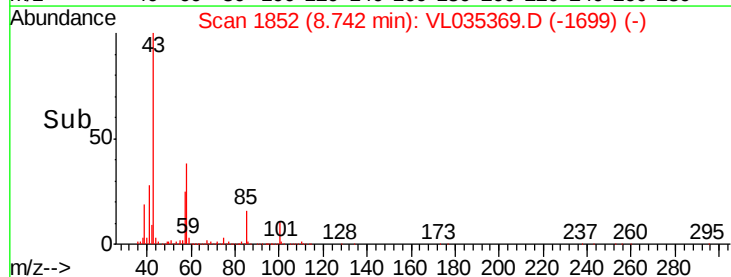
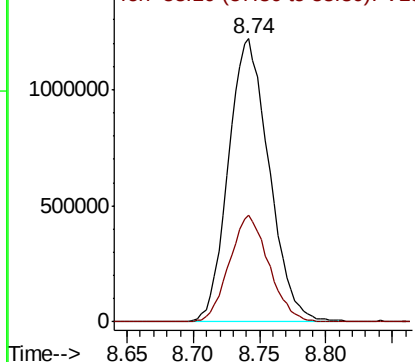
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.2	43.8

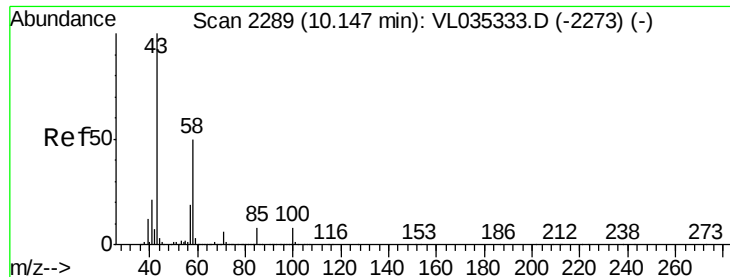


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





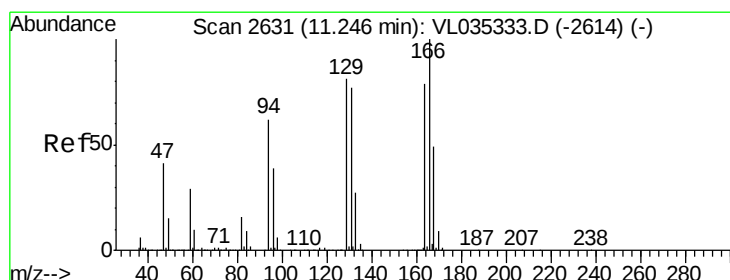
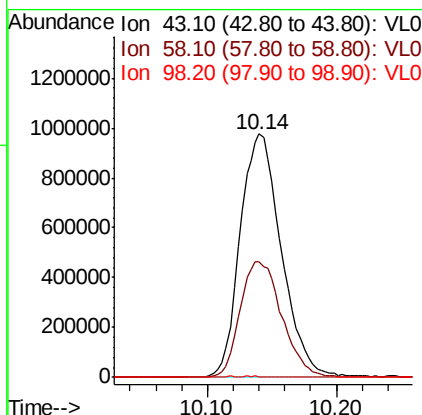
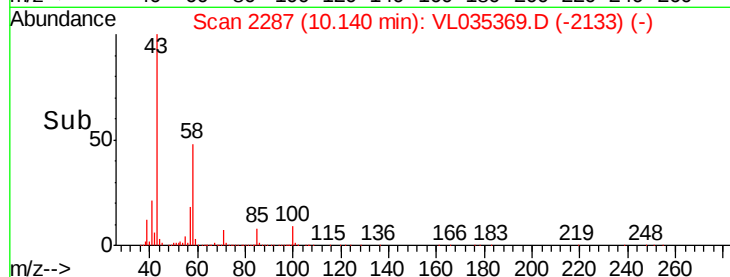
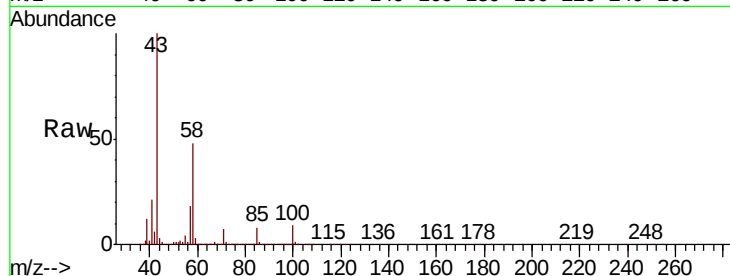
#51
2-Hexanone
Concen: 11.195 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2161861
Ion Ratio Lower Upper
43 100
58 48.7 39.4 59.2
98 0.7 0.2 0.4#

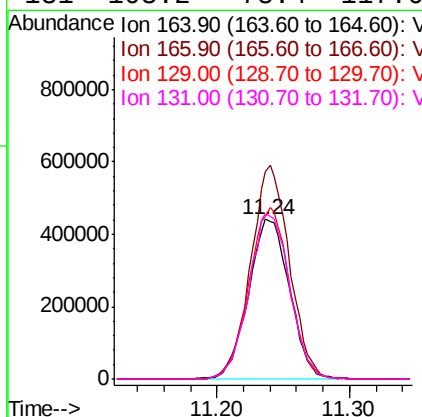
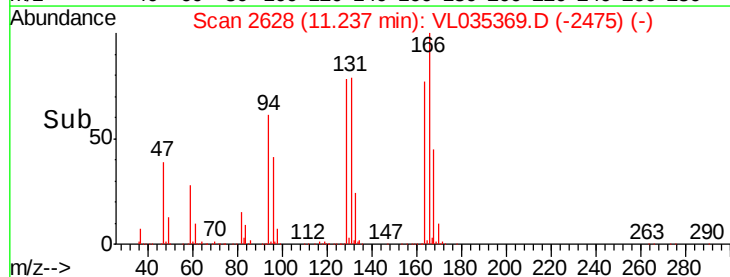
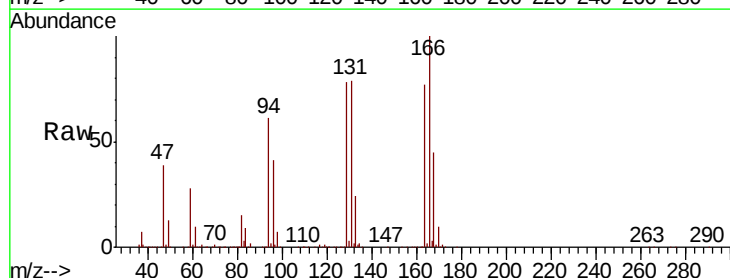
Manual Integrations
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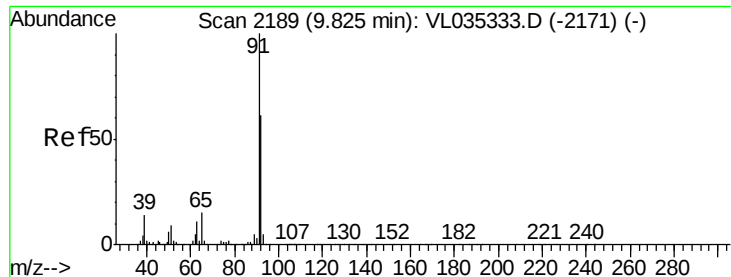
MMDadoda
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#52
Tetrachloroethene
Concen: 10.762 ppbv
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 164 Resp: 944046
Ion Ratio Lower Upper
164 100
166 130.2 101.4 152.0
129 101.8 82.1 123.1
131 103.2 78.4 117.6





#53

Toluene

Concen: 12.055 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2901556

Ion Ratio Lower Upper

91 100

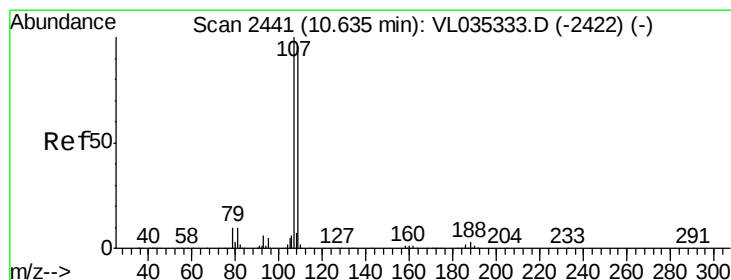
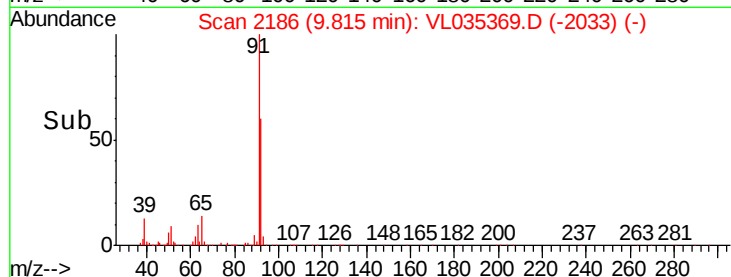
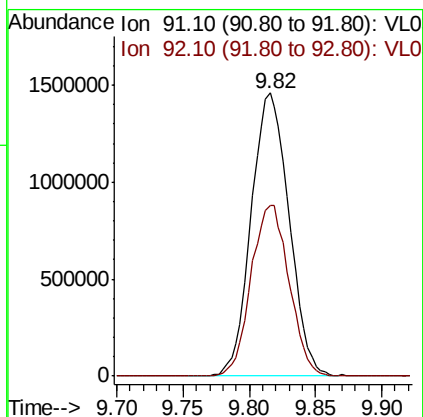
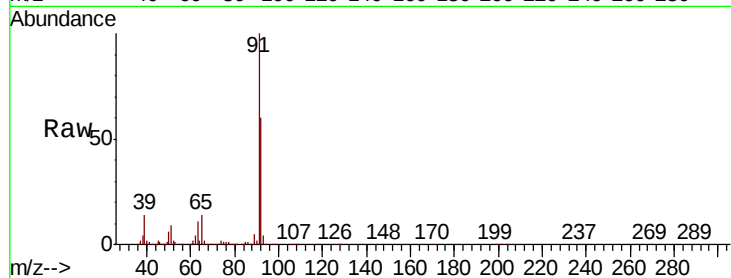
92 60.7 48.5 72.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.582 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL035369.D

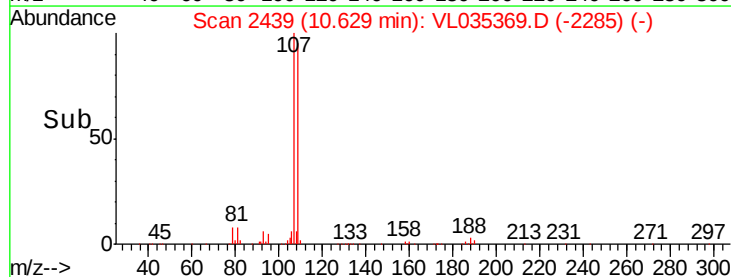
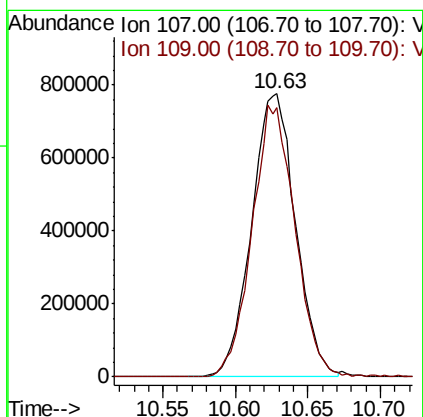
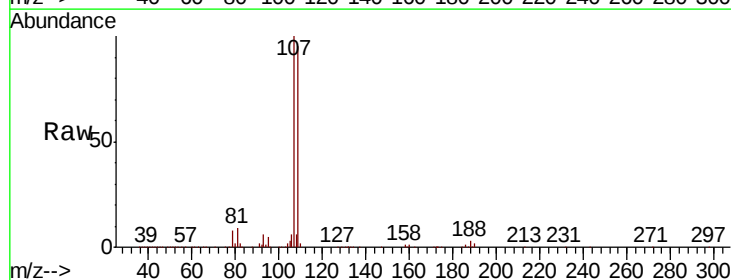
Acq: 7 Aug 2020 5:03

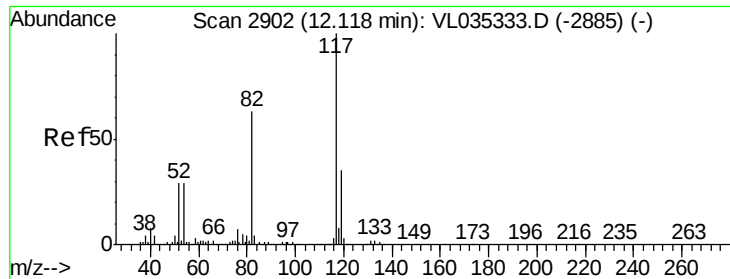
Tgt Ion: 107 Resp: 1634965

Ion Ratio Lower Upper

107 100

109 95.0 76.8 115.2





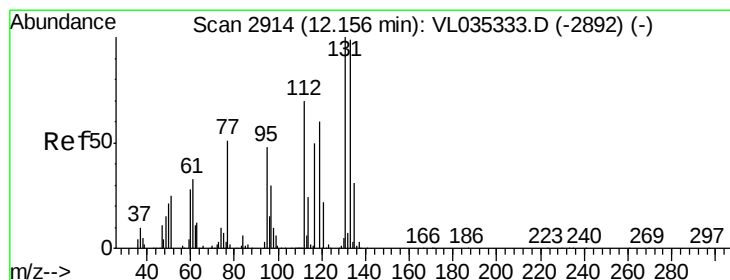
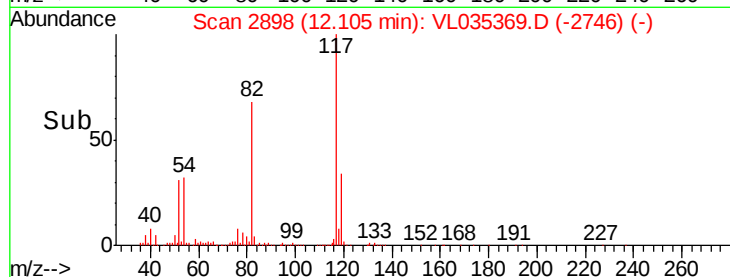
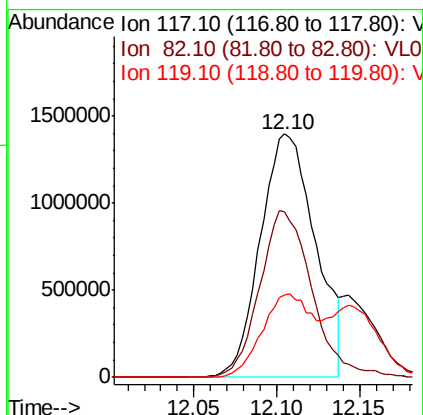
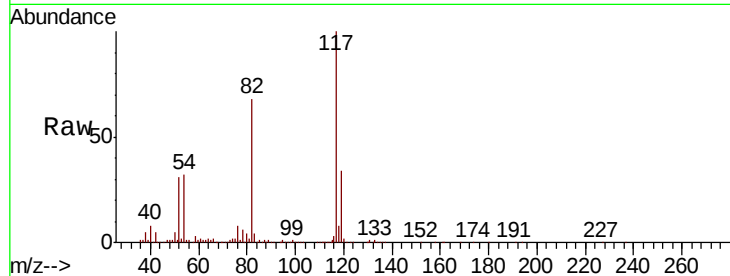
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.6	51.0	76.4
119	32.1	24.7	37.1

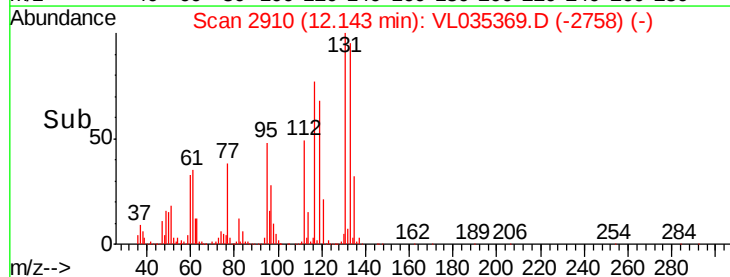
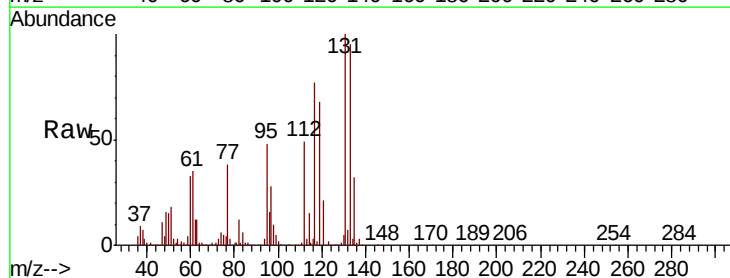
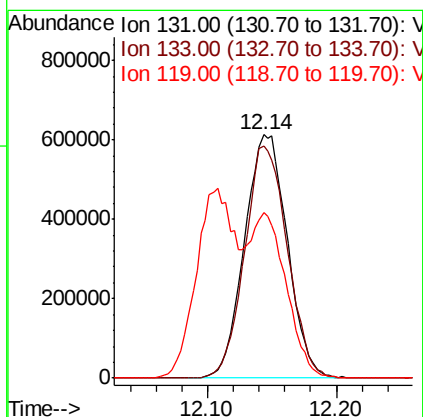
Manual Integrations
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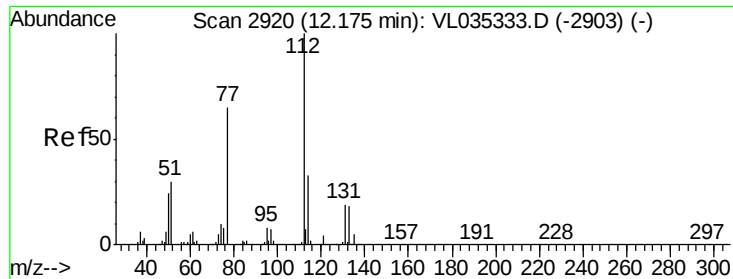
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.308 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.4	113.2
119	59.0	43.7	65.5





#57

Chlorobenzene

Concen: 9.851 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2394228

Ion Ratio Lower Upper

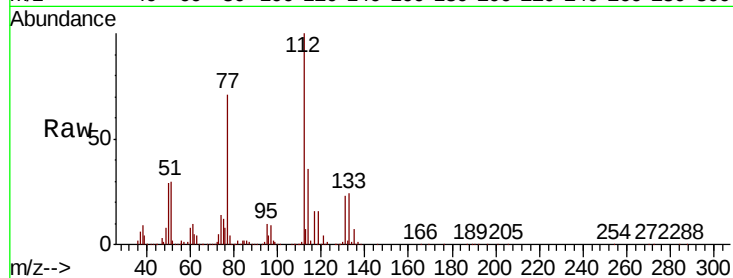
112 100

77 71.2 53.3 79.9

114 35.4 29.8 36.4

Manual Integrations
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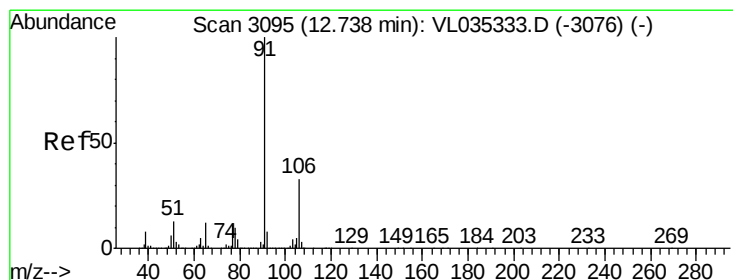
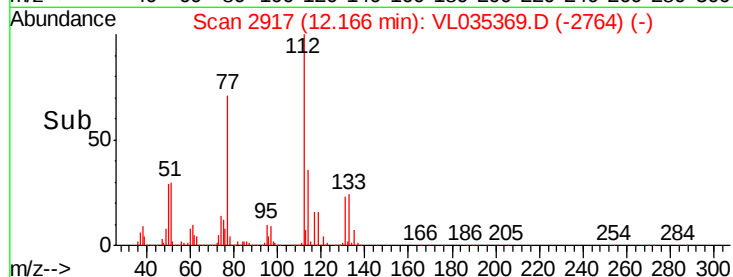
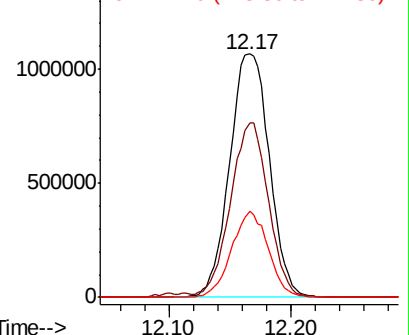
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.733 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.01 min

Lab File: VL035369.D

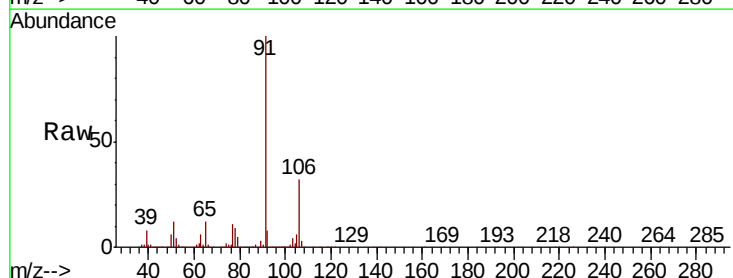
Acq: 7 Aug 2020 5:03

Tgt Ion: 91 Resp: 3940871

Ion Ratio Lower Upper

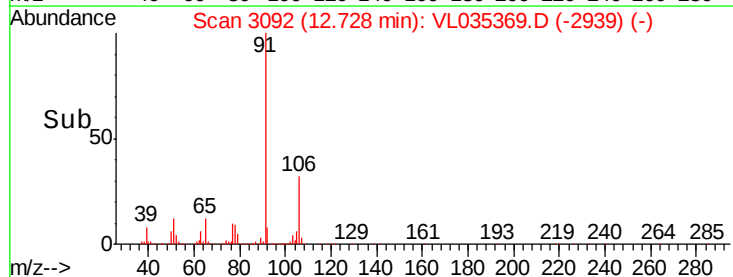
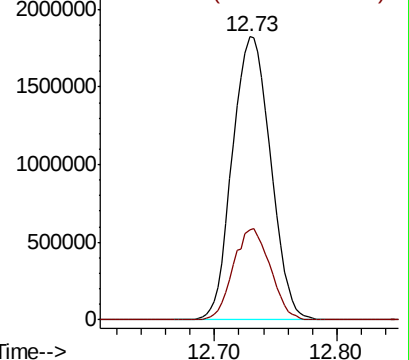
91 100

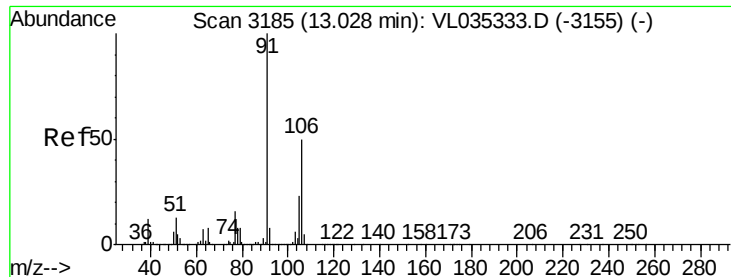
106 31.7 26.8 40.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





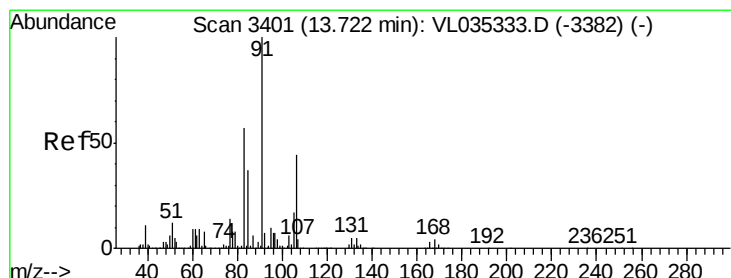
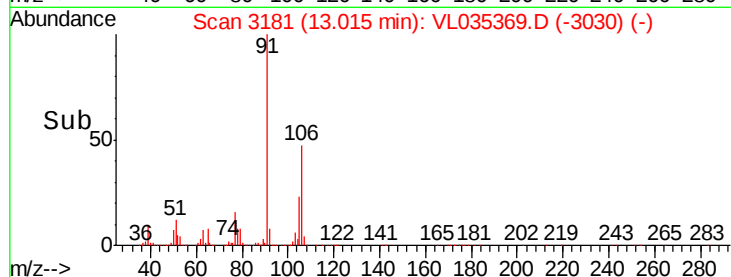
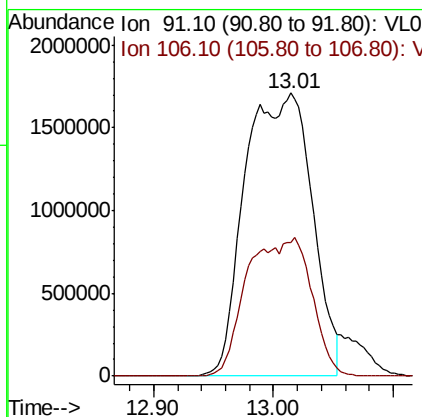
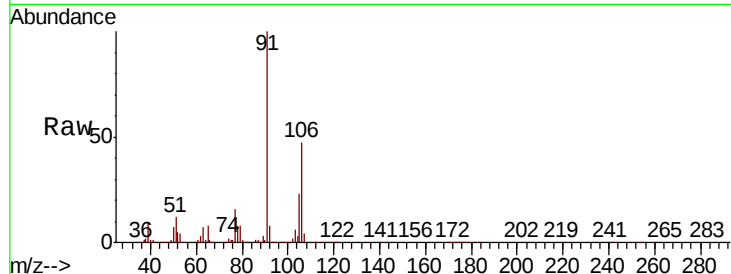
#59
m/p-Xylene
Concen: 21.329 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6670829
Ion Ratio Lower Upper
91 100
106 47.1 37.8 56.8

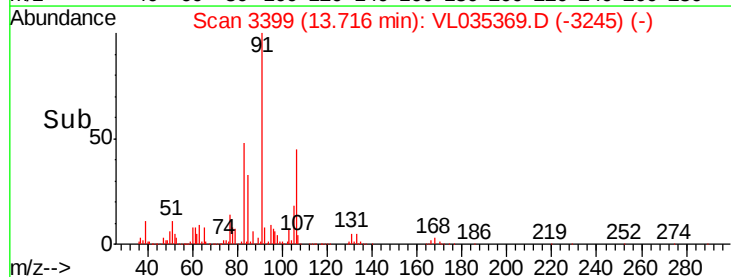
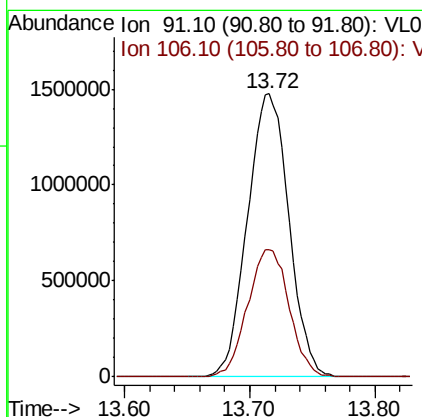
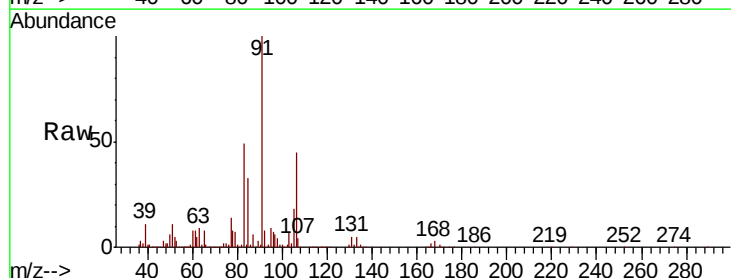
Manual Integrations
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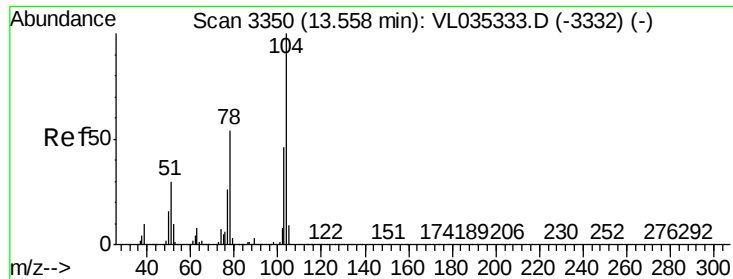
MMDadoda
8/7/2020 12:54:47 PM



#60
o-Xylene
Concen: 10.922 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion: 91 Resp: 3389749
Ion Ratio Lower Upper
91 100
106 44.9 22.7 68.0





#61

Stvrene

Concen: 10.493 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1988878

Ion Ratio Lower Upper

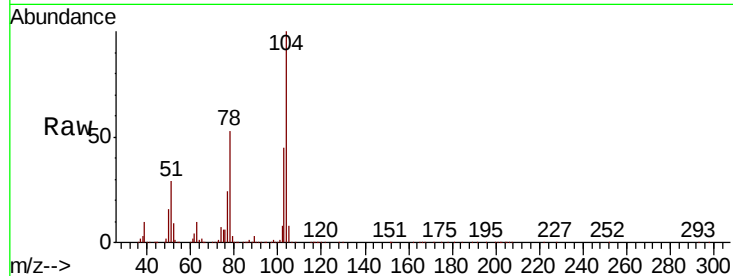
104 100

78 53.7 42.6 63.8

103 48.2 38.1 57.1

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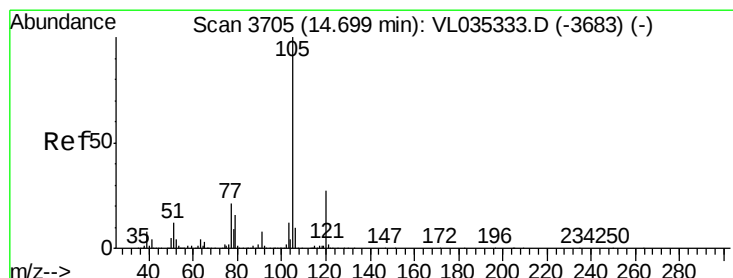
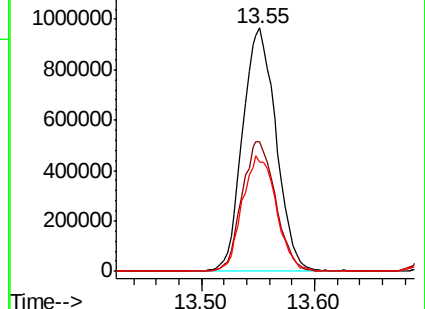
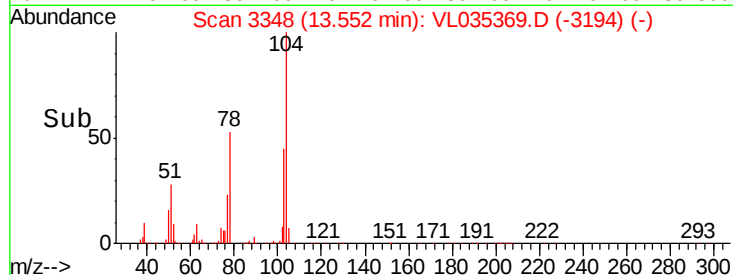
MMDadoda
8/7/2020 12:54:47 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.352 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. -0.01 min

Lab File: VL035369.D

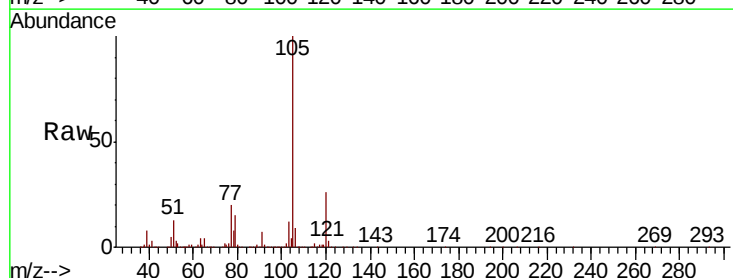
Acq: 7 Aug 2020 5:03

Tgt Ion:105 Resp: 4837825

Ion Ratio Lower Upper

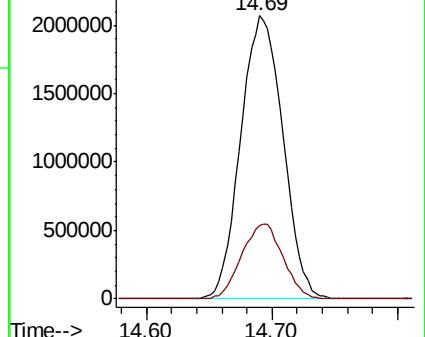
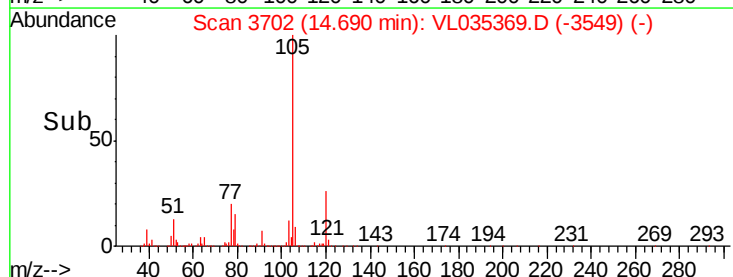
105 100

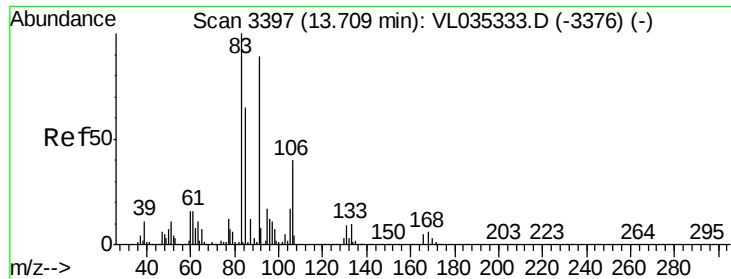
120 25.9 21.1 31.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





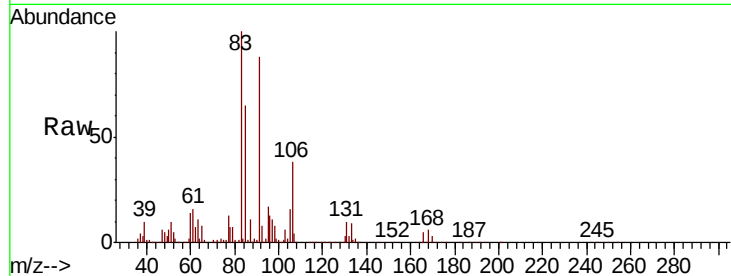
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.312 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

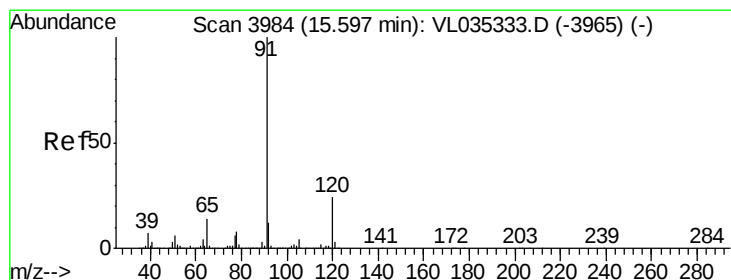
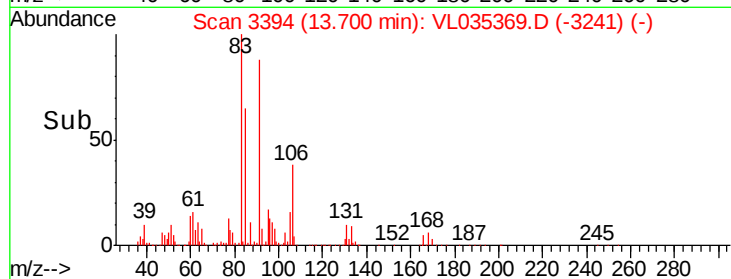
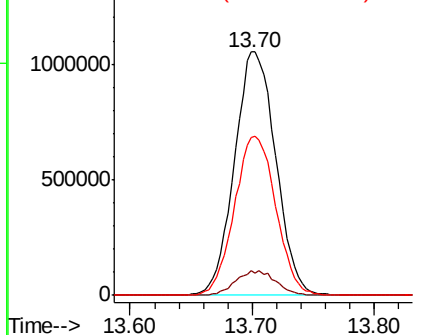
Tot Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	65.6	32.6	98.0

Manual Integrations
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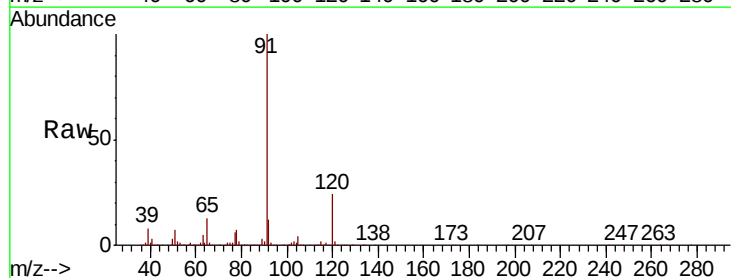


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

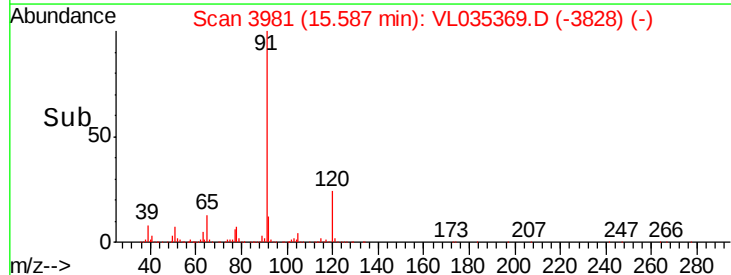
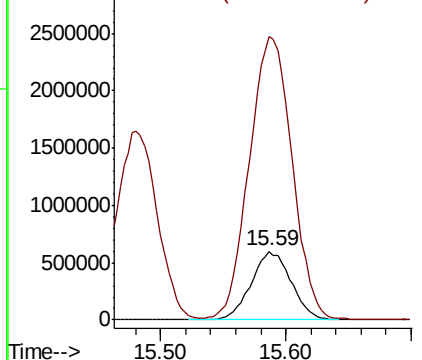


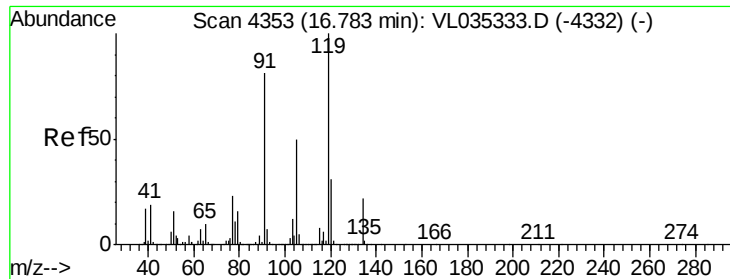
#64
 n-propylbenzene
 Concen: 10.506 ppbv
 RT: 15.59 min Scan# 3981
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
120	100		
91	445.3	357.2	535.8



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





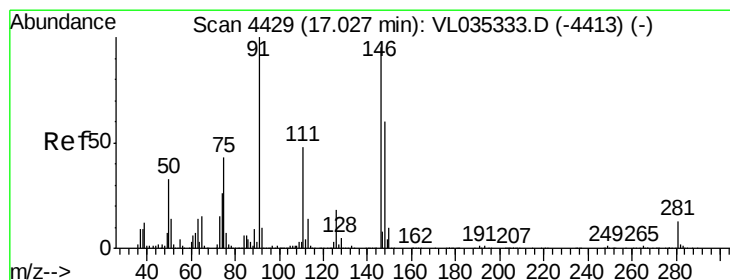
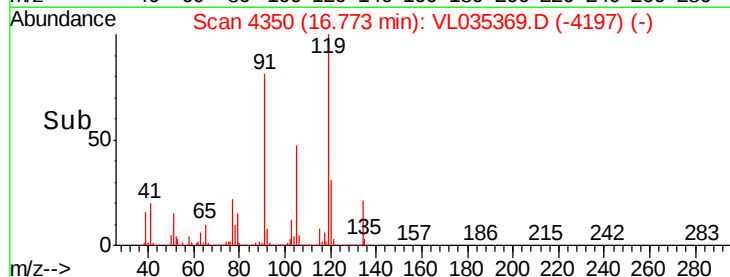
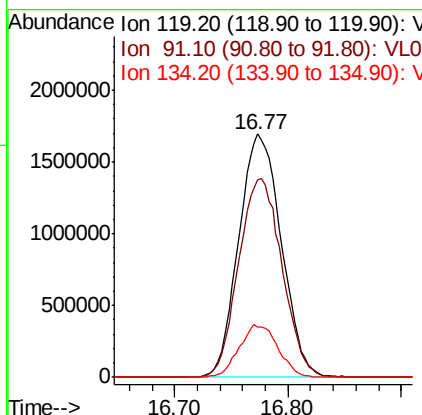
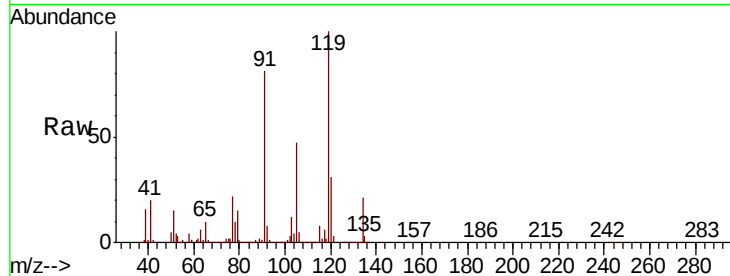
#65
tert-Butylbenzene
Concen: 10.359 ppbv
RT: 16.77 min Scan# 4350
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.3	66.3	99.5
134	19.8	16.2	24.2

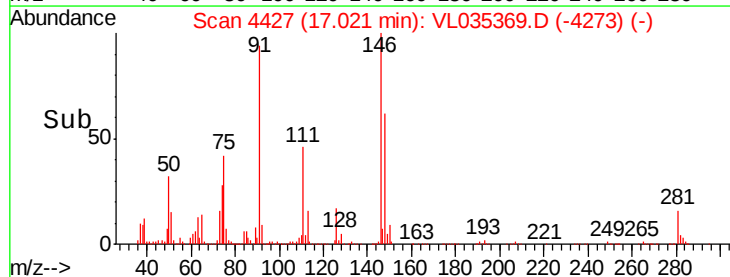
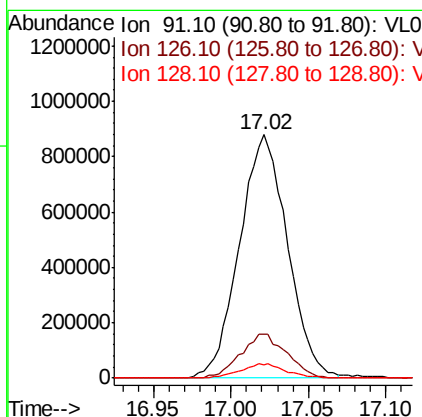
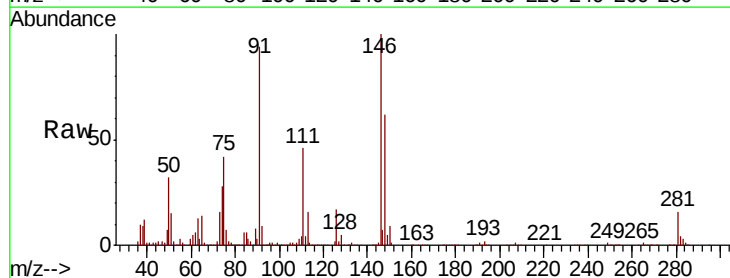
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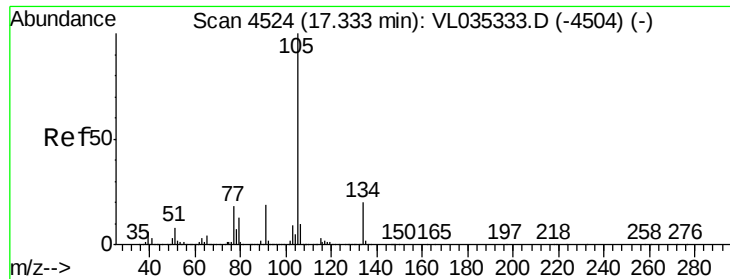
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#66
Benzyl Chloride
Concen: 11.118 ppbv
RT: 17.02 min Scan# 4427
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.7	14.1	21.1
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 10.123 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6127395

Ion Ratio Lower Upper

105 100

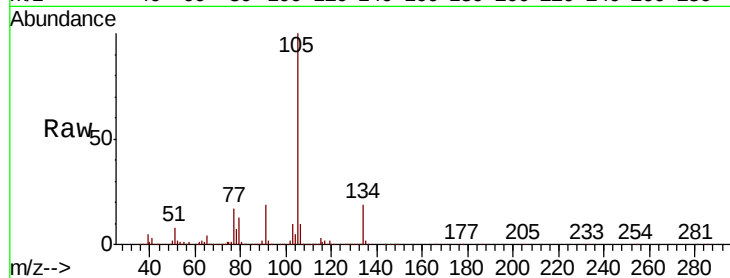
134 19.0 15.4 23.2

Manual Integrations

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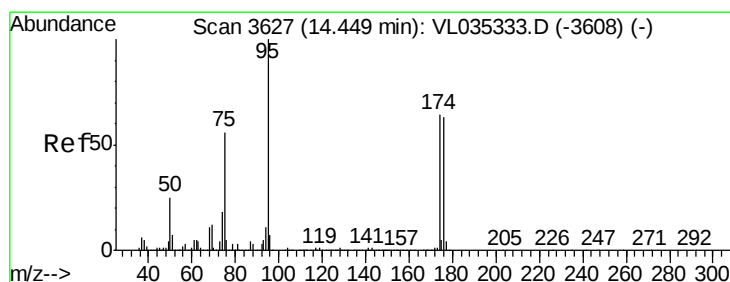
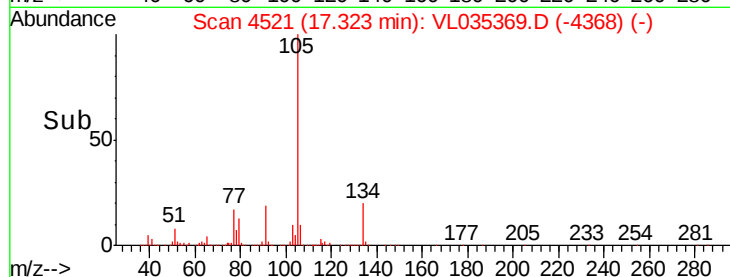
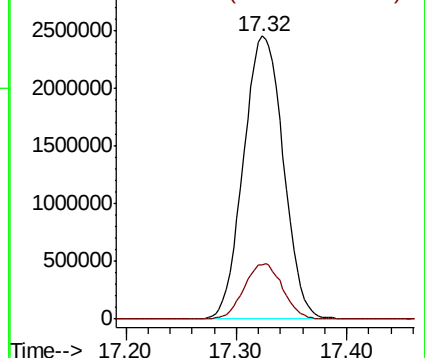
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.919 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

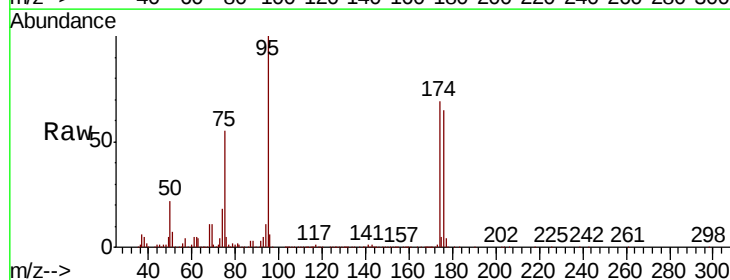
Tgt Ion: 95 Resp: 2670061

Ion Ratio Lower Upper

95 100

174 67.3 53.5 80.3

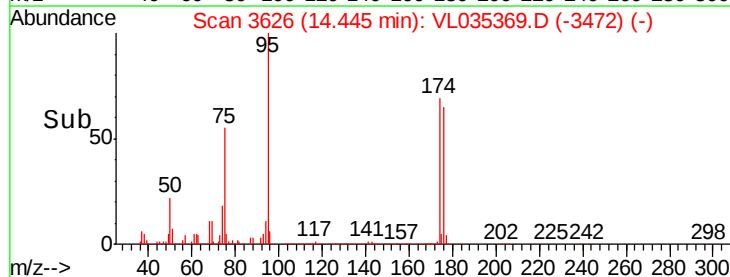
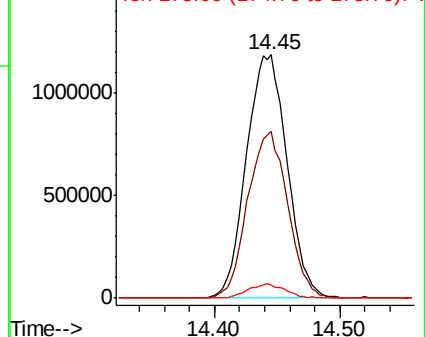
175 5.4 4.2 6.2

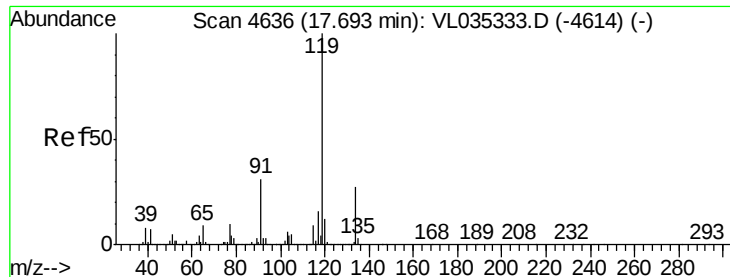


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





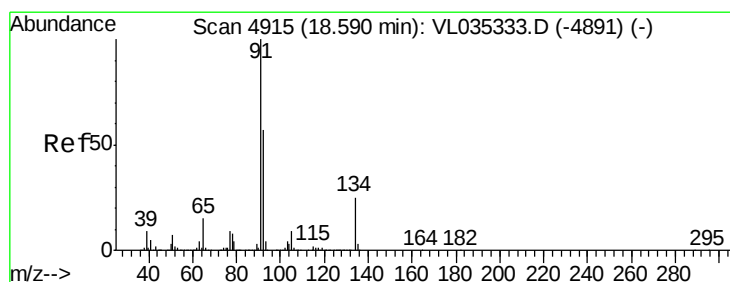
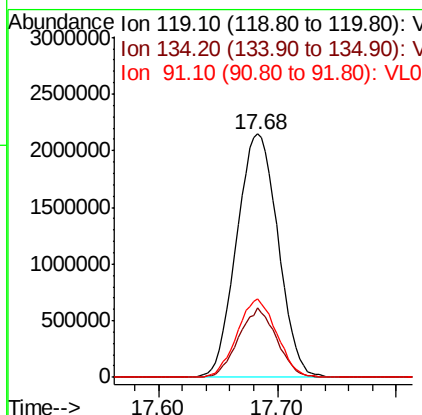
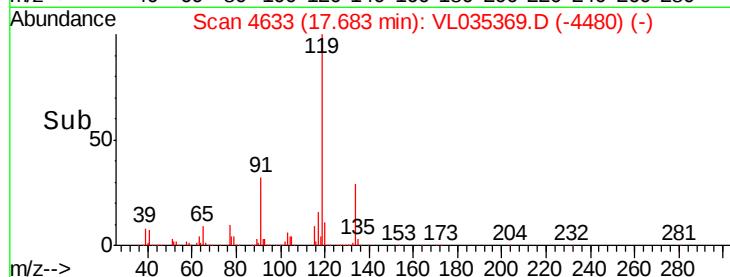
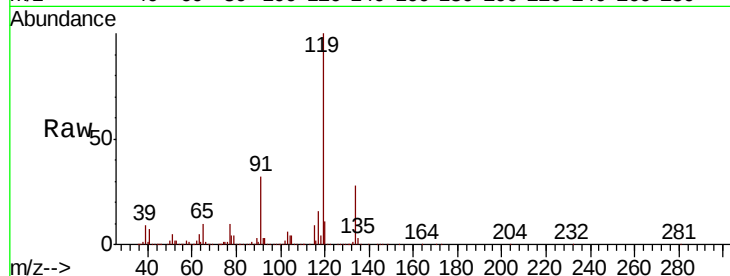
#69
 p-Isopropyltoluene
 Concen: 10.438 ppbv
 RT: 17.68 min Scan# 4633
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.4	21.1	31.7
91	30.9	24.5	36.7

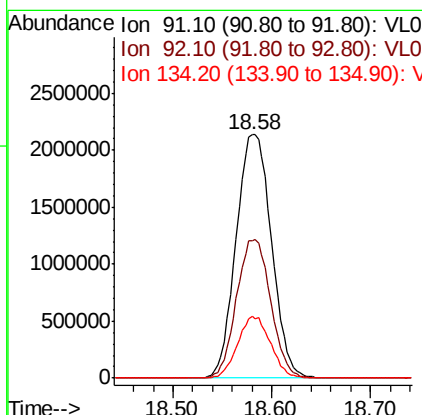
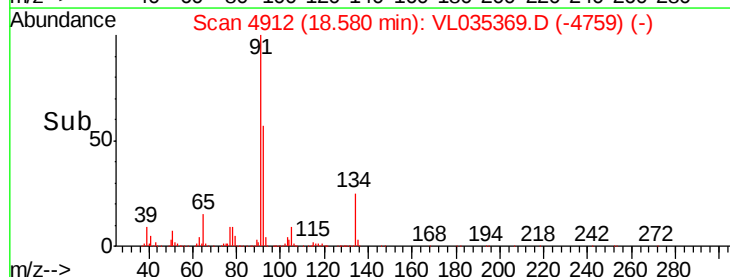
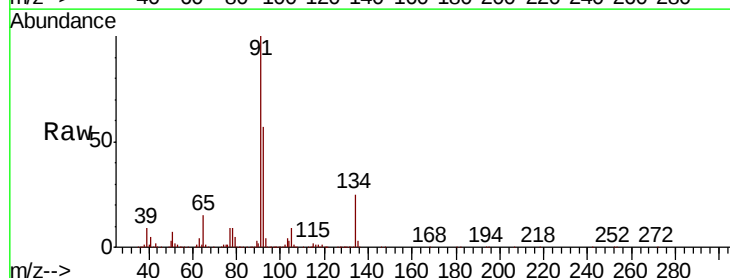
Manual Integrations
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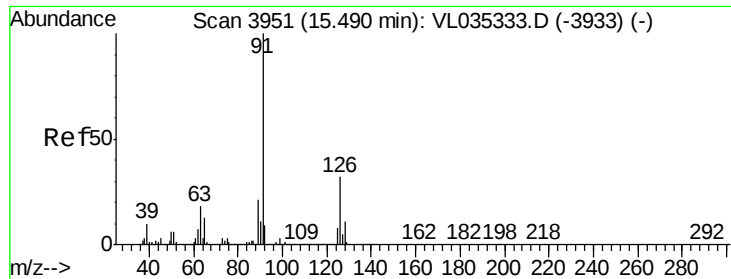
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 8/7/2020 12:54:47 PM



#70
 n-Butylbenzene
 Concen: 10.057 ppbv
 RT: 18.58 min Scan# 4912
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.2	66.2
134	23.5	19.0	28.6





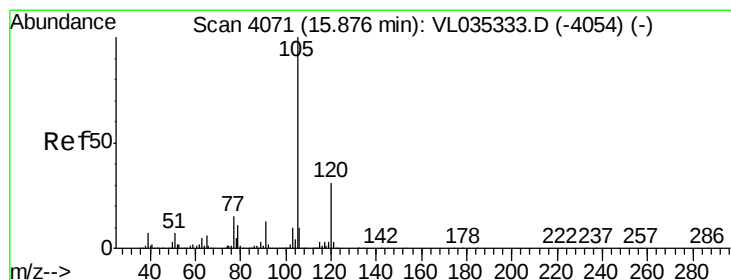
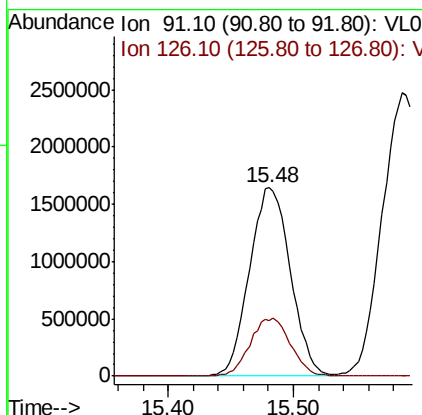
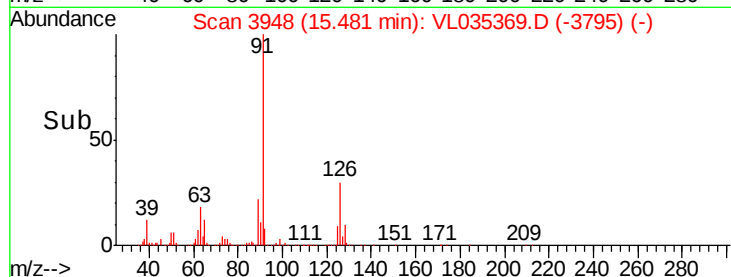
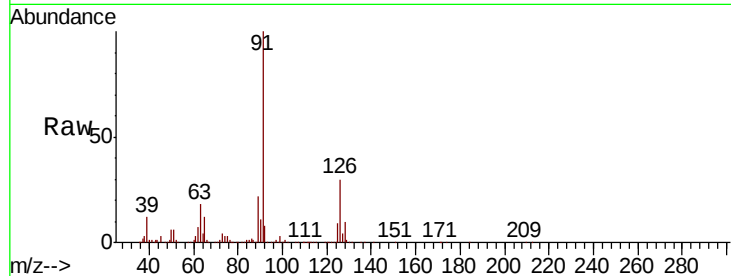
#71
 2-Chlorotoluene
 Concen: 10.912 ppbv
 RT: 15.48 min Scan# 3948
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 3735596
 Ion Ratio Lower Upper
 91 100
 126 30.5 12.5 50.1

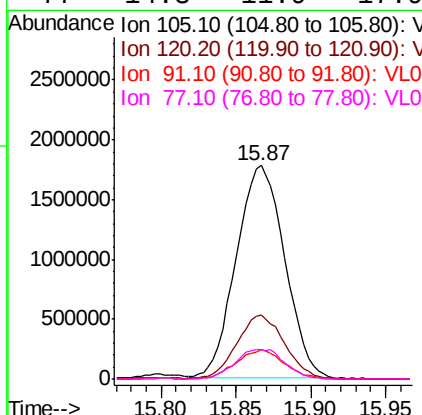
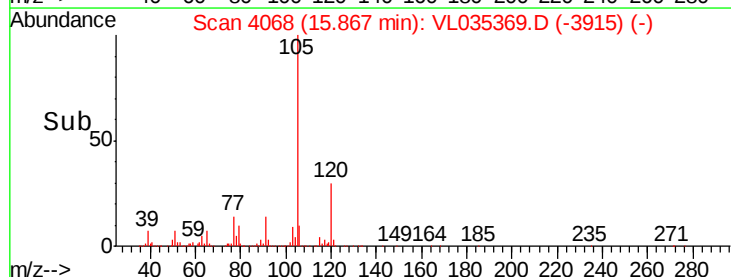
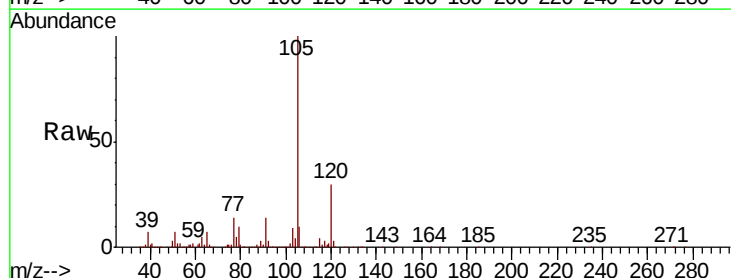
Manual Integrations
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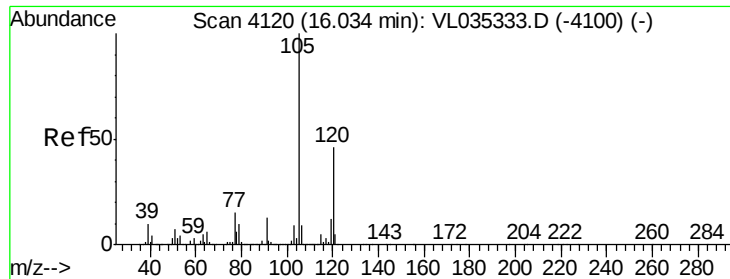
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#72
 4-Ethyltoluene
 Concen: 11.382 ppbv
 RT: 15.87 min Scan# 4068
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion:105 Resp: 4027744
 Ion Ratio Lower Upper
 105 100
 120 29.4 24.0 36.0
 91 13.5 10.8 16.2
 77 14.3 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 11.175 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3794384

Ion Ratio Lower Upper

105 100

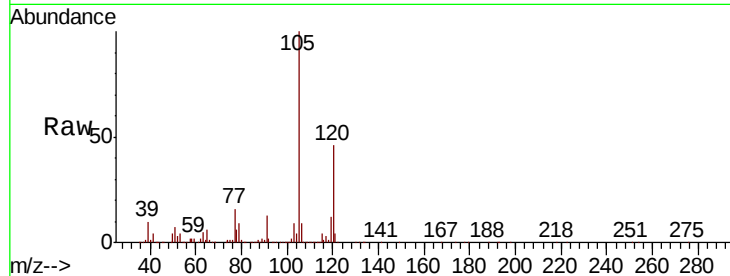
120 46.3 36.9 55.3

Manual Integrations

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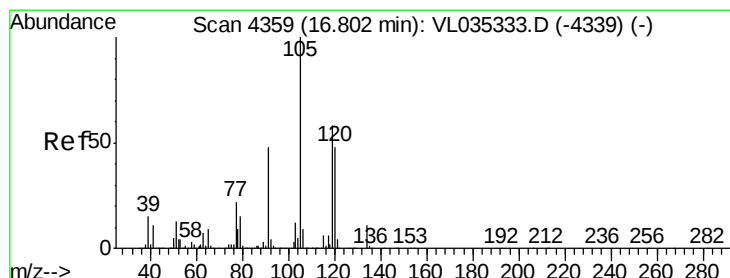
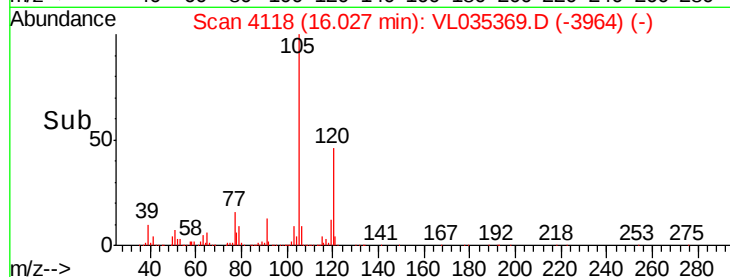
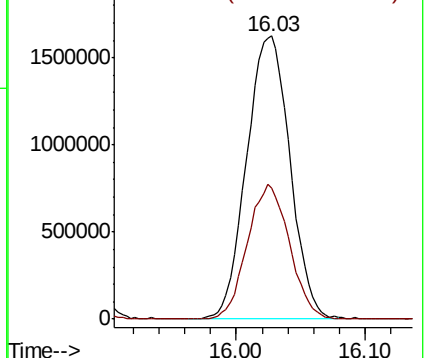
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.466 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Tgt Ion:105 Resp: 4061548

Ion Ratio Lower Upper

105 100

120 49.4 38.5 57.7

91 57.8 39.0 58.6

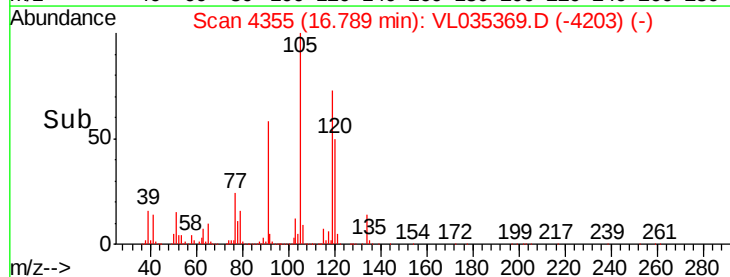
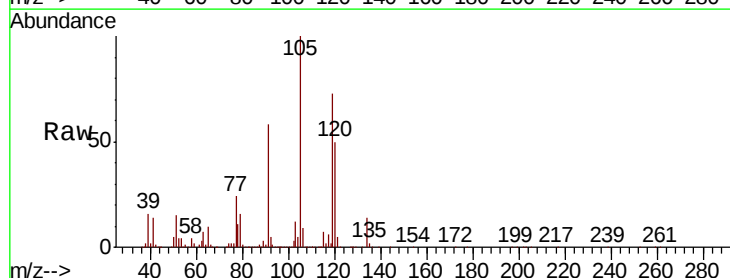
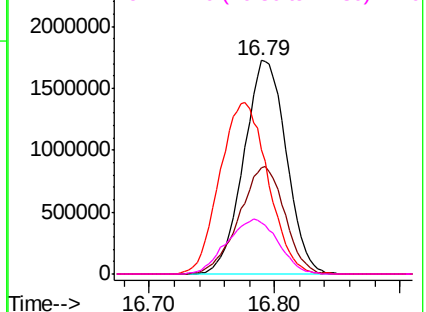
77 24.2 17.8 26.6

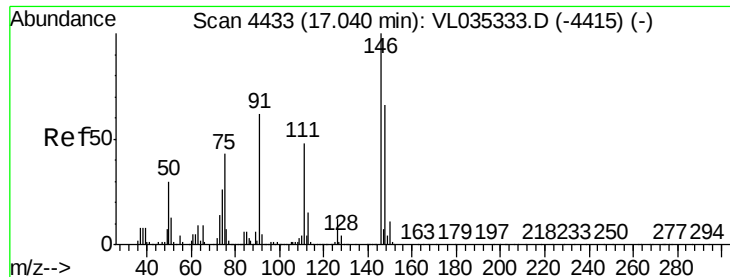
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.552 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2425106

Ion Ratio Lower Upper

146 100

111 48.5 24.2 72.6

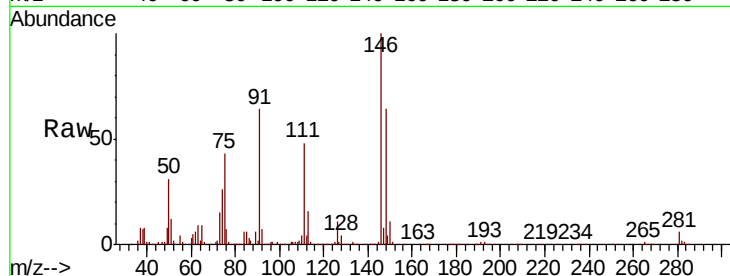
148 64.4 32.6 98.0

Manual Integrations

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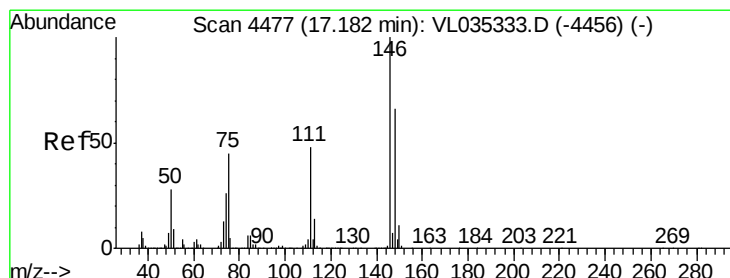
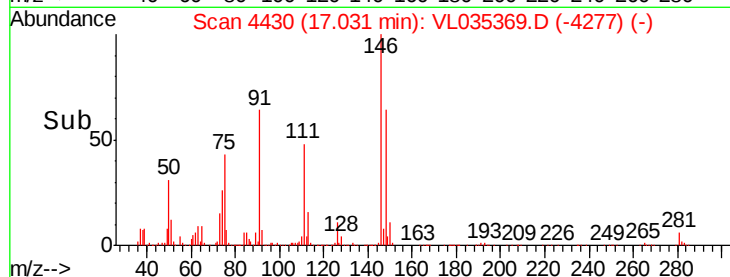
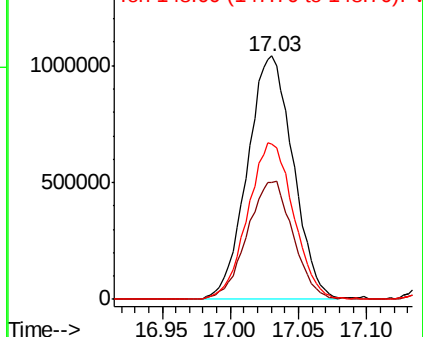
8/7/2020 12:54:47 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.185 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.01 min

Lab File: VL035369.D

Acq: 7 Aug 2020 5:03

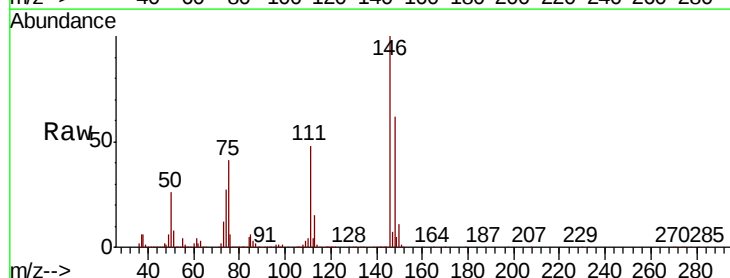
Tgt Ion:146 Resp: 2394550

Ion Ratio Lower Upper

146 100

111 46.7 23.3 69.9

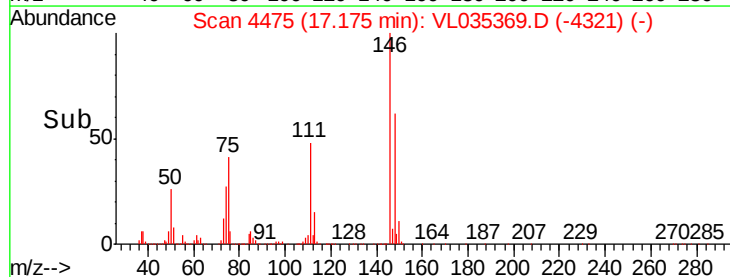
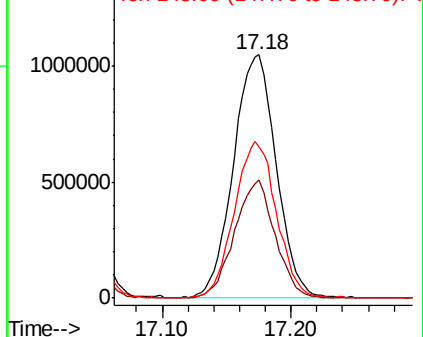
148 64.5 32.1 96.5

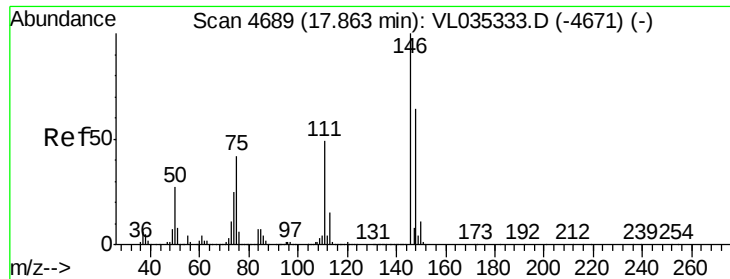


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





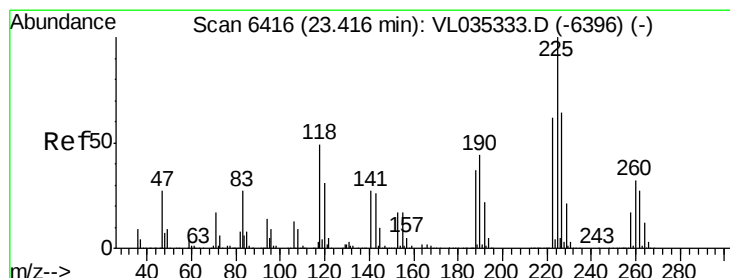
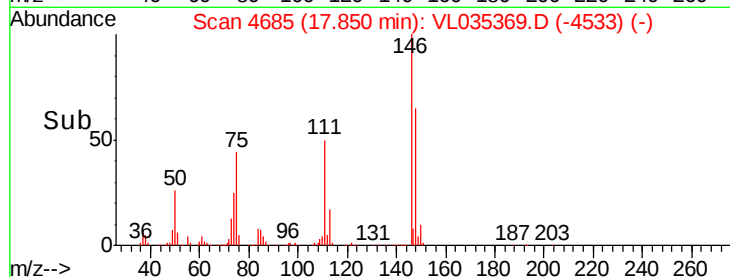
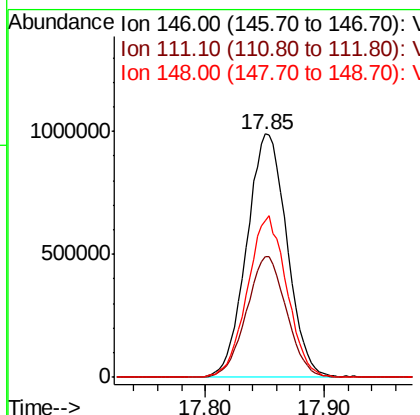
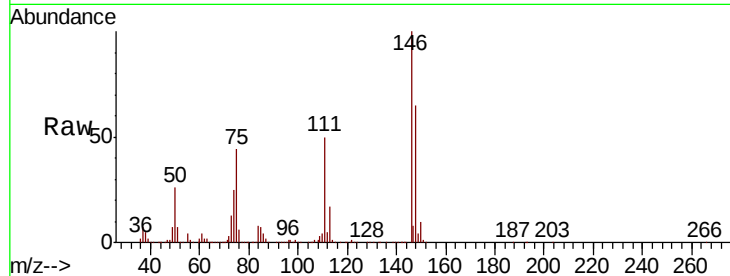
#77
 1,2-Dichlorobenzene
 Concen: 9.896 ppbv
 RT: 17.85 min Scan# 4685
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.4	24.9	74.7
148	65.0	31.9	95.9

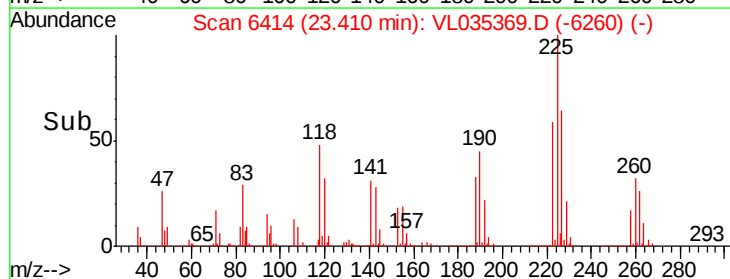
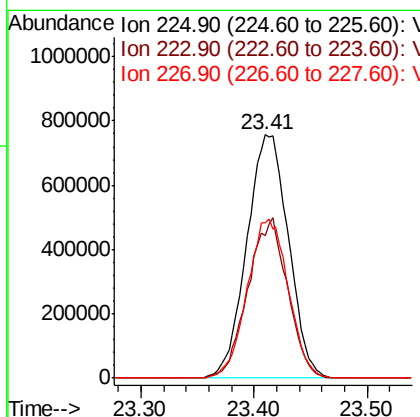
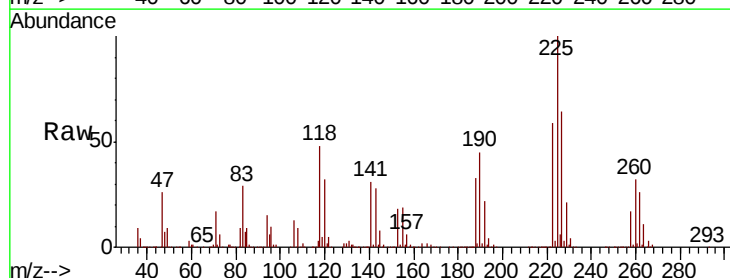
Manual Integrations
 APPROVED

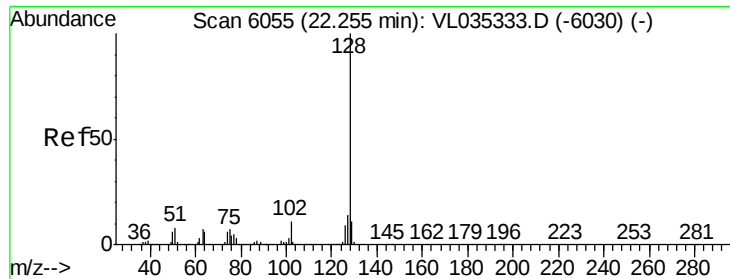
MMDadoda
 8/7/2020 12:54:47 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.715 ppbv
 RT: 23.41 min Scan# 6414
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	64.3	52.7	79.1





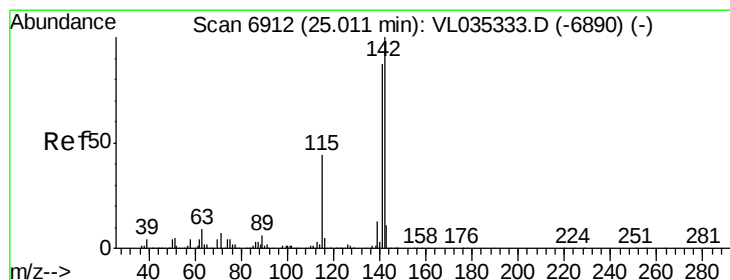
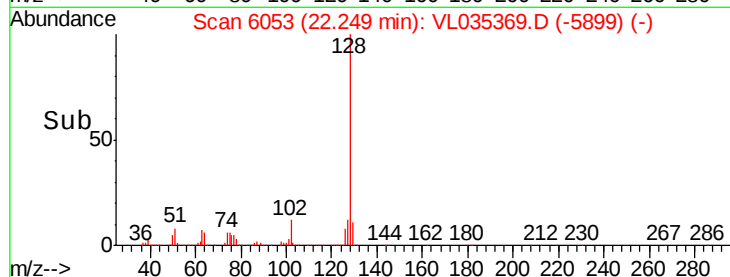
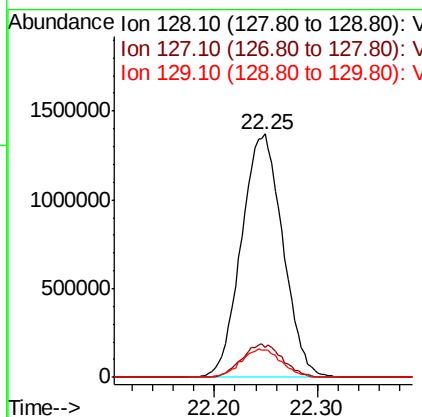
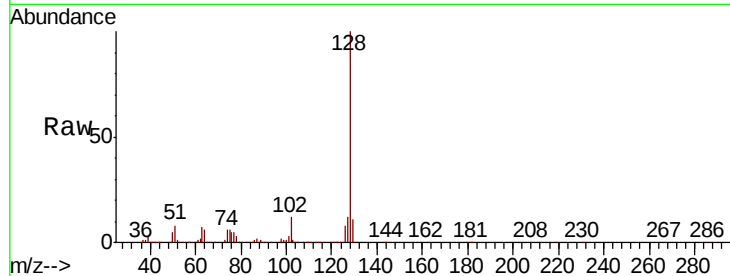
#79
Naphthalene
Concen: 12.799 ppbv
RT: 22.25 min Scan# 6053
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	11.1	16.7
129	11.1	8.7	13.1

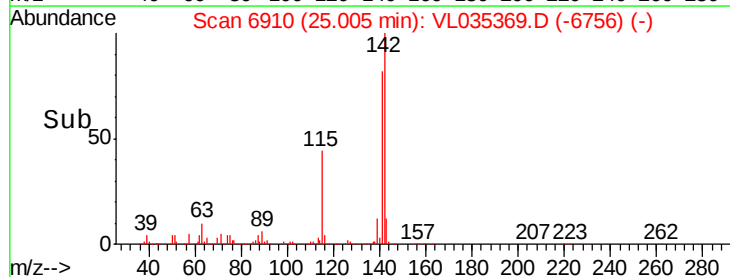
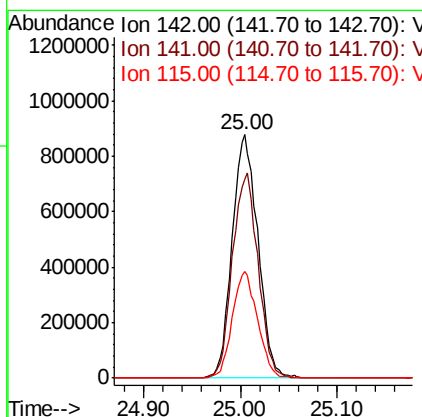
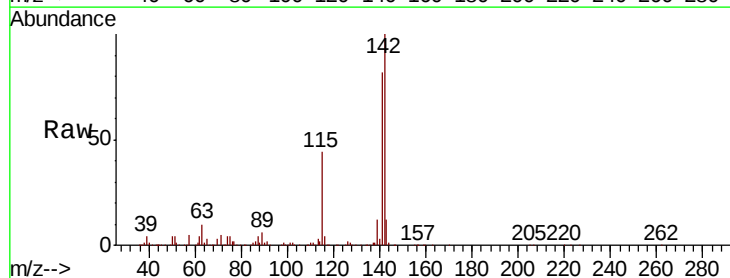
Manual Integrations
APPROVED

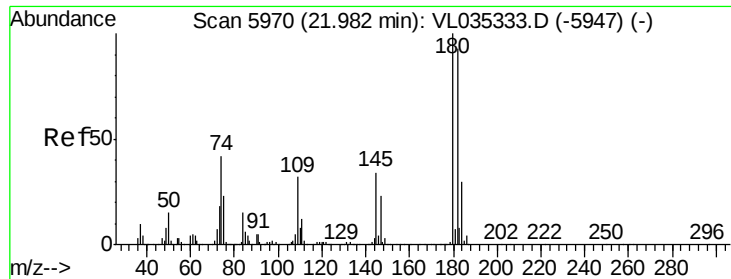
MMDadoda
8/7/2020 12:54:47 PM



#80
Naphthalene, 2-methyl-
Concen: 23.941 ppbv
RT: 25.00 min Scan# 6910
Delta R.T. -0.01 min
Lab File: VL035369.D
Acq: 7 Aug 2020 5:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	69.0	103.6
115	43.1	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 11.508 ppbv
 RT: 21.98 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL035369.D
 Acq: 7 Aug 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.2	115.8
184	31.1	25.1	37.7

Manual Integrations
 APPROVED

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