

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034685.D
 Acq On : 26 Feb 2020 8:55
 Operator : SY/AP
 Sample : VL0226ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:44 PM

Quant Time: Feb 27 07:36:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 27 07:36:58 2020
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1096563	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2272905	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2515044m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1952362	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1307360	7.558	ppbv 96
3) Chlorodifluoromethane	2.95	51	1065856	9.007	ppbv 100
4) Chloromethane	3.10	50	620627	9.369	ppbv 100
5) Vinyl Chloride	3.22	62	615706	9.474	ppbv 99
6) Bromomethane	3.44	94	357198	9.382	ppbv 92
7) Chloroethane	3.52	64	224359	9.299	ppbv 93
8) Dichlorotetrafluoroethane	3.15	85	1338029	8.745	ppbv 100
9) Propene	2.97	41	459792	9.295	ppbv 100
10) Heptane	8.13	43	1293337	10.158	ppbv 100
11) Trichlorofluoromethane	3.92	101	1374853	9.074	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	951548	8.910	ppbv 99
13) Ethanol	3.57	45	121232	7.758	ppbv 95
14) Bromoethene	3.71	108	411685	9.239	ppbv 99
15) Acetone	3.82	43	1081448	8.655	ppbv 100
16) 1,3-Butadiene	3.29	39	556001	9.612	ppbv 99
17) tert-Butyl alcohol	4.27	59	885901	9.252	ppbv 99
18) 1,1-Dichloroethene	4.27	96	444430	9.269	ppbv 92
19) Isopropyl Alcohol	3.94	45	742202	9.972	ppbv 99
20) Methylene Chloride	4.32	84	390303	8.399	ppbv 94
21) Allyl Chloride	4.39	41	785916	9.506	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	441432	9.442	ppbv 98
23) Vinyl Acetate	5.06	43	1716661	10.106	ppbv 99
24) 1,1-Dichloroethane	5.00	63	1241267	9.149	ppbv 100
25) Ethyl Acetate	5.67	43	2092116	9.458	ppbv 100
26) Hexane	5.68	57	974809	9.562	ppbv 98
27) Carbon Disulfide	4.53	76	1170279	10.113	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1317433	9.046	ppbv 100
29) Chloroform	5.75	83	1493387	9.194	ppbv 98
30) Cyclohexane	7.13	84	790136	10.000	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1006714	10.034	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	1402425	9.246	ppbv 98
34) 2-Butanone	5.23	43	1405624	9.825	ppbv 99
35) Carbon Tetrachloride	7.02	117	1475306	9.692	ppbv 100
36) Benzene	6.90	78	1905525	9.707	ppbv 97
37) 1,2-Dichloroethane	6.31	62	1221893	9.874	ppbv 99
38) Trichloroethene	7.85	130	716372	9.467	ppbv 95
39) 1,2-Dichloropropane	7.62	63	775065	9.924	ppbv 96
40) 1,4-Dioxane	7.84	88	287691m	10.832	ppbv
41) Tetrahydrofuran	6.04	42	774649	10.259	ppbv 99
42) Bromodichloromethane	7.80	83	1620035	10.000	ppbv 100
43) Methyl Methacrylate	8.02	69	853000	10.331	ppbv 100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034685.D
 Acq On : 26 Feb 2020 8:55
 Operator : SY/AP
 Sample : VL0226ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

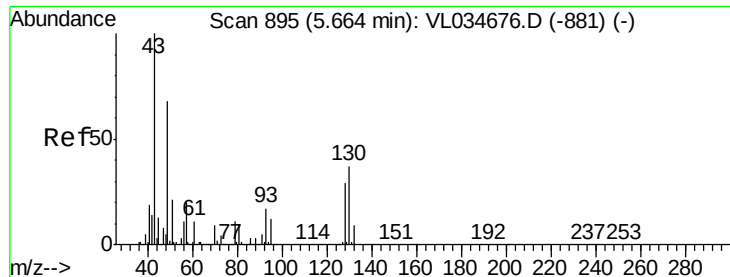
Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:44 PM

Quant Time: Feb 27 07:36:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 27 2020
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3359005	9.790	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1032747	11.462	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1192047	11.031	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	790531	9.866	ppbv	97
48) Dibromochloromethane	10.33	129	1308872	10.505	ppbv	99
49) Bromoform	13.07	173	1152180	10.666	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2143306	10.577	ppbv	99
51) 2-Hexanone	10.15	43	1798127	11.276	ppbv #	99
52) Tetrachloroethene	11.25	164	661896	9.198	ppbv	98
53) Toluene	9.82	91	2204400	10.558	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1208654	10.111	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	911549	8.510	ppbv #	55
57) Chlorobenzene	12.18	112	1630322	8.770	ppbv	98
58) Ethyl Benzene	12.74	91	2936486	9.650	ppbv	98
59) m/p-Xylene	13.03	91	4904856m	18.481	ppbv	
60) o-Xylene	13.72	91	2425777	9.211	ppbv	99
61) Styrene	13.56	104	1731107	10.233	ppbv	99
62) Isopropylbenzene	14.70	105	3408851	8.873	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1747922	8.516	ppbv	100
64) n-propylbenzene	15.60	120	894394	9.030	ppbv	95
65) tert-Butylbenzene	16.79	119	2897969	8.736	ppbv	98
66) Benzyl Chloride	17.03	91	1371479	11.083	ppbv	99
67) sec-Butylbenzene	17.34	105	4178658	8.754	ppbv	99
69) p-Isopropyltoluene	17.69	119	3468723	8.827	ppbv	99
70) n-Butylbenzene	18.59	91	3722294	8.699	ppbv	100
71) 2-Chlorotoluene	15.49	91	2678871	9.003	ppbv	100
72) 4-Ethyltoluene	15.88	105	2774124	9.464	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	2639411	9.360	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	2731893	8.773	ppbv #	88
75) 1,3-Dichlorobenzene	17.04	146	1563808	8.699	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1585848	8.818	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1526566	8.784	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	1241154	8.202	ppbv	100
79) Naphthalene	22.26	128	2662244	9.714	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	1032784	12.218	ppbv	96
81) 1,2,4-Trichlorobenzene	21.99	180	1407820	8.607	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 49 Resp: 1096563

Ion Ratio Lower Upper

49 100

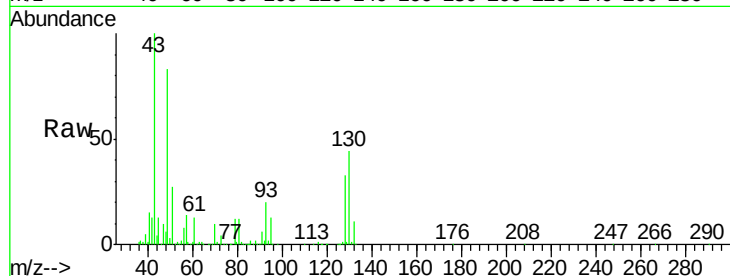
128 43.1 21.6 65.0

130 55.3 27.7 83.1

Manual Integrations
APPROVED

MMDadoda

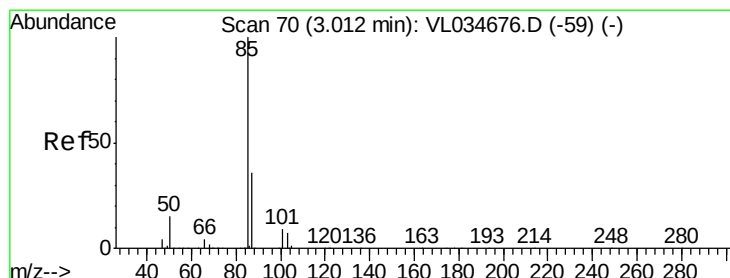
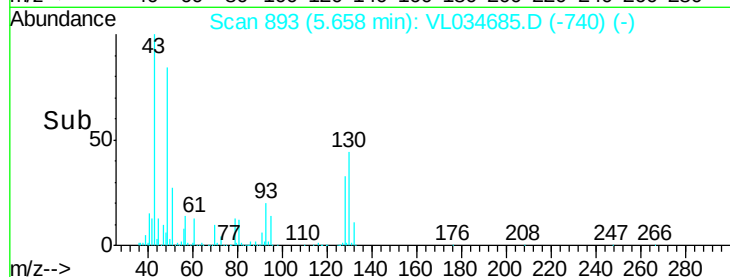
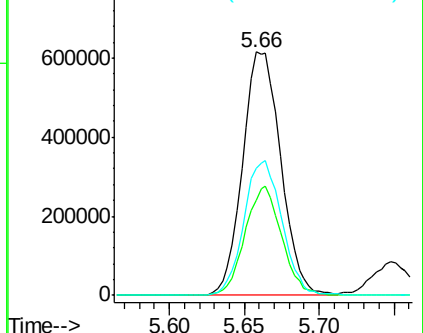
2/27/2020 5:19:44 PM



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: 7.558 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034685.D

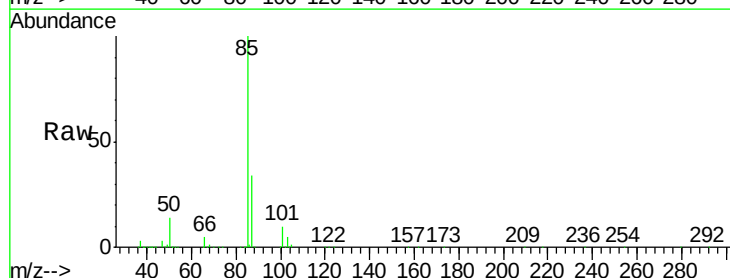
Acq: 26 Feb 2020 8:55

Tgt Ion: 85 Resp: 1307360

Ion Ratio Lower Upper

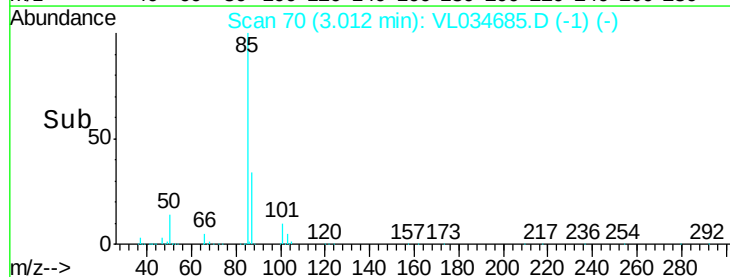
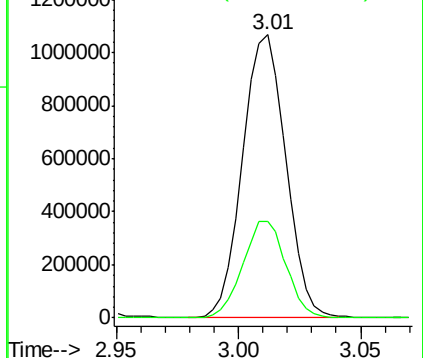
85 100

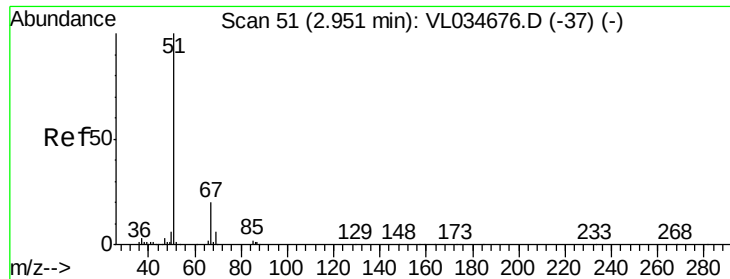
87 34.0 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.007 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tot Ion: 51 Resp: 1065856

Ion Ratio Lower Upper

51 100

67 19.5 15.5 23.3

Instrument :

MSVOA_L

ClientSampleId :

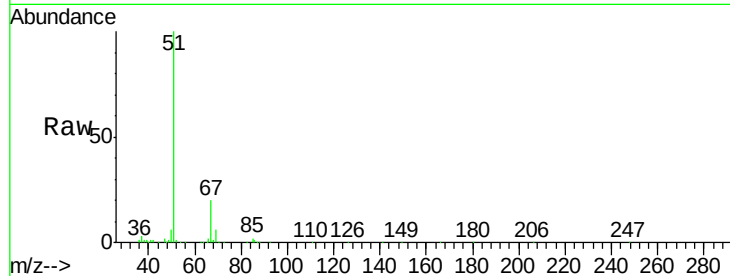
VL0226ABS01

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:44 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

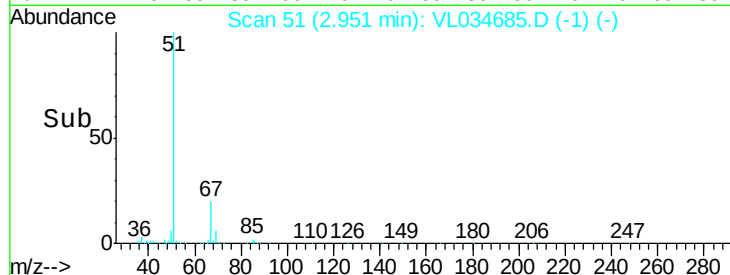
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.369 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034685.D

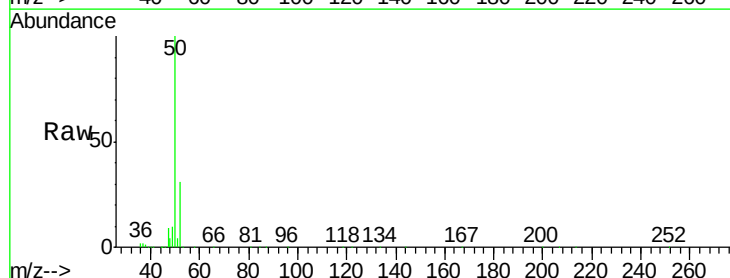
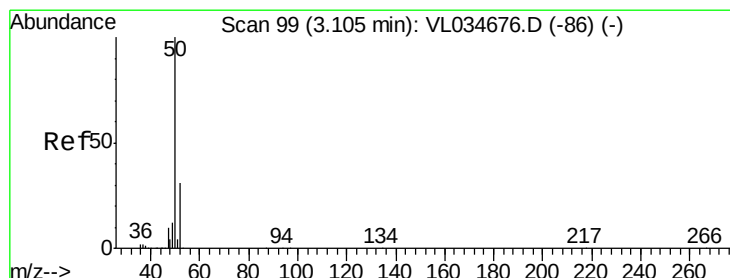
Acq: 26 Feb 2020 8:55

Tgt Ion: 50 Resp: 620627

Ion Ratio Lower Upper

50 100

52 31.2 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

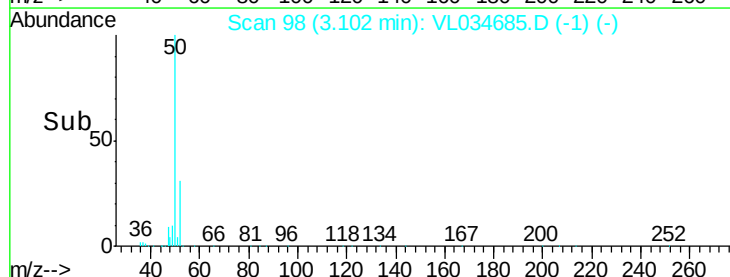
300000

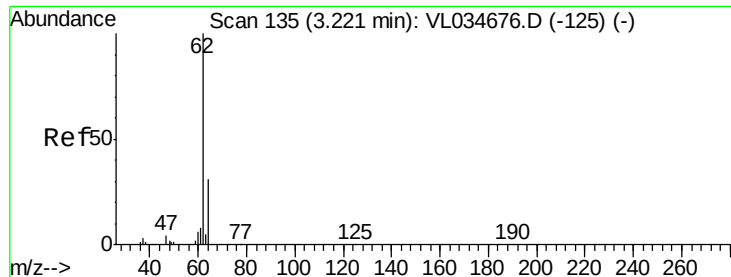
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 9.474 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleID :

VL0226ABS01

Tot Ion: 62 Resp: 615706

Ion Ratio Lower Upper

62 100

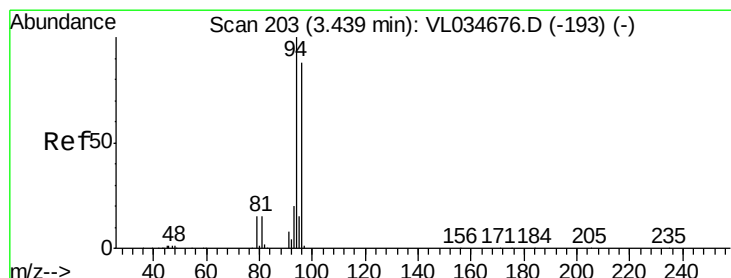
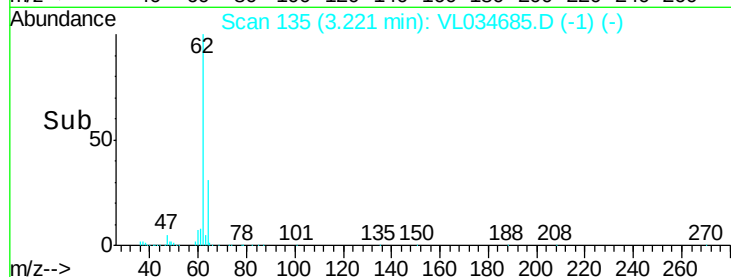
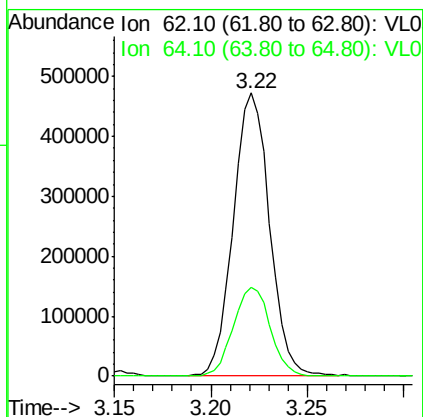
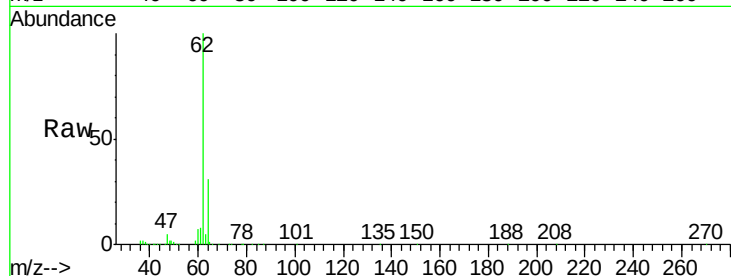
64 31.3 24.7 37.1

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:44 PM



#6

Bromomethane

Concen: 9.382 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034685.D

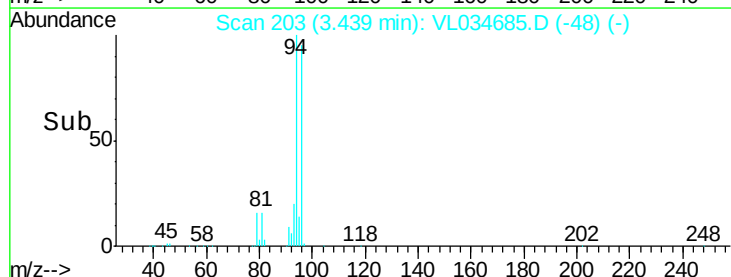
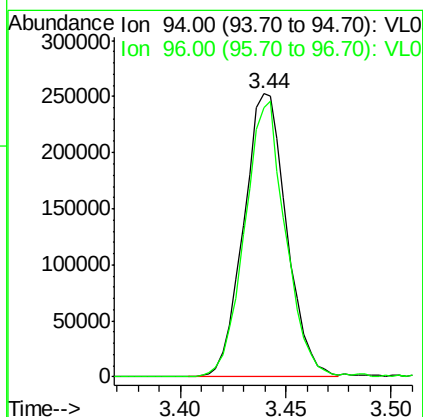
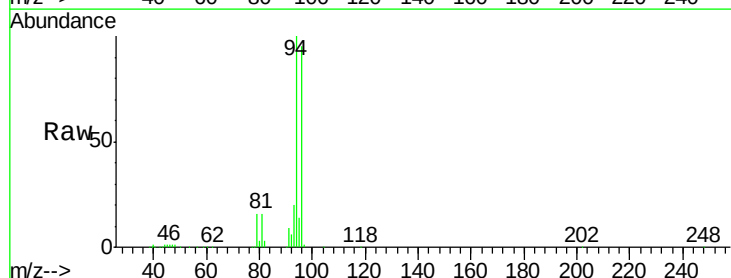
Acq: 26 Feb 2020 8:55

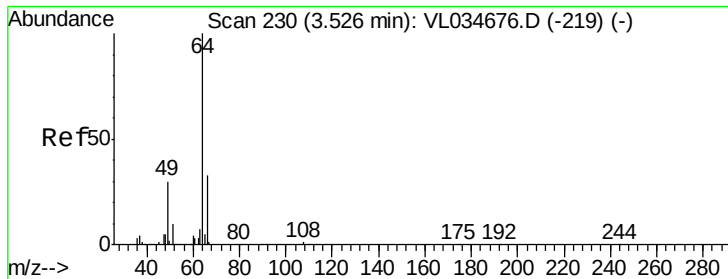
Tgt Ion: 94 Resp: 357198

Ion Ratio Lower Upper

94 100

96 95.3 70.5 105.7





#7

Chloroethane

Concen: 9.299 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 64 Resp: 224359

Ion Ratio Lower Upper

64 100

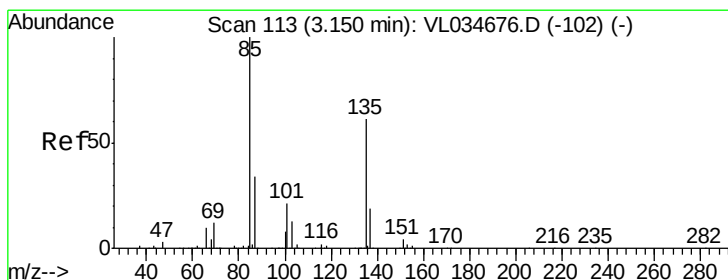
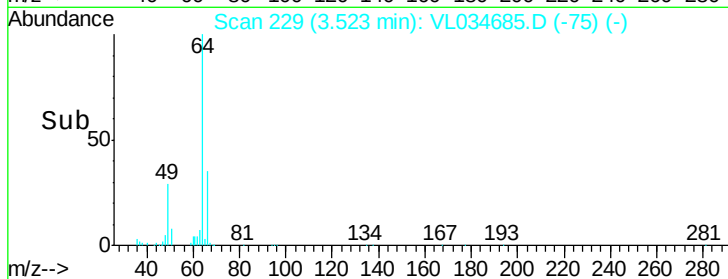
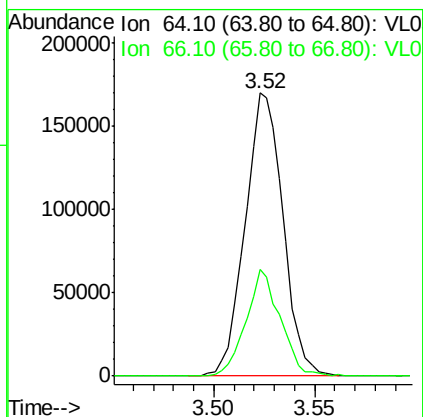
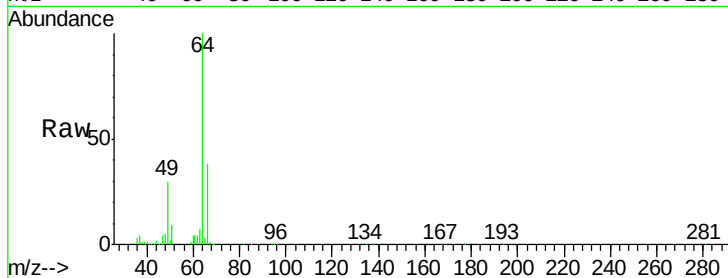
66 37.6 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:44 PM



#8

Dichlorotetrafluoroethane

Concen: 8.745 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034685.D

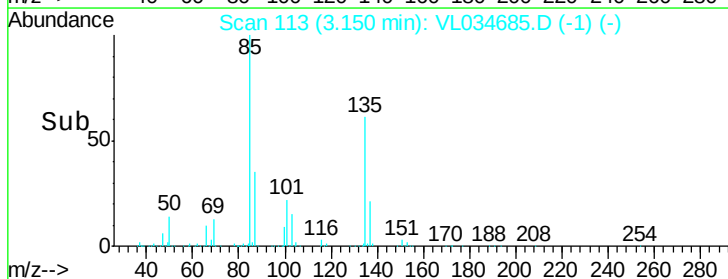
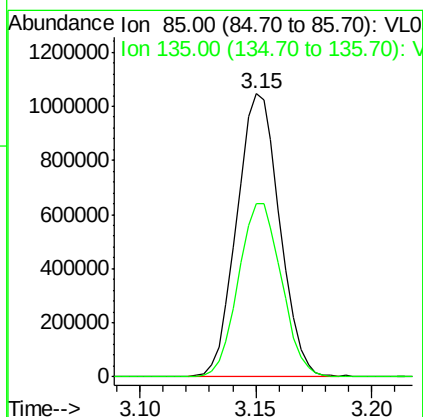
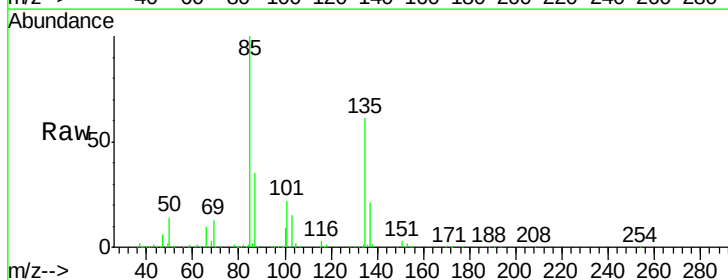
Acq: 26 Feb 2020 8:55

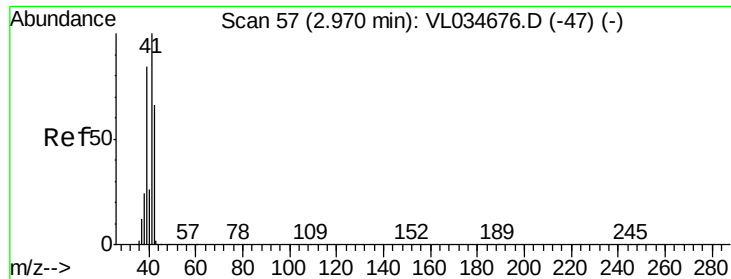
Tgt Ion: 85 Resp: 1338029

Ion Ratio Lower Upper

85 100

135 61.9 49.8 74.6





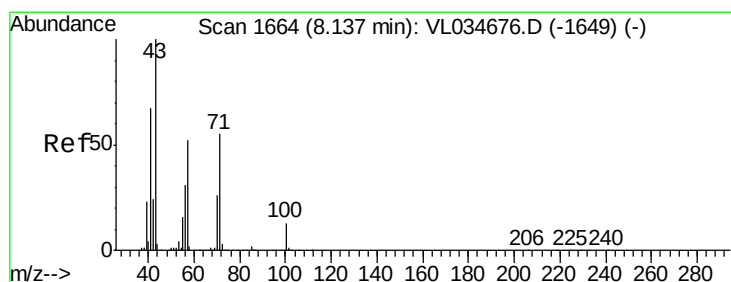
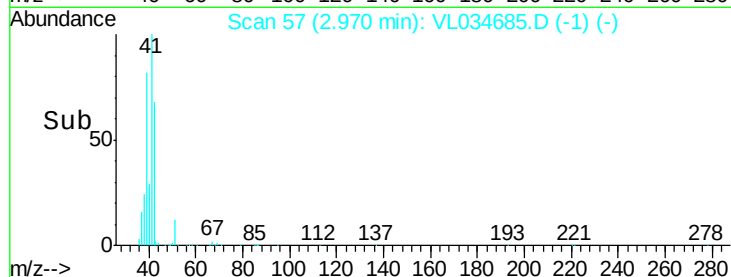
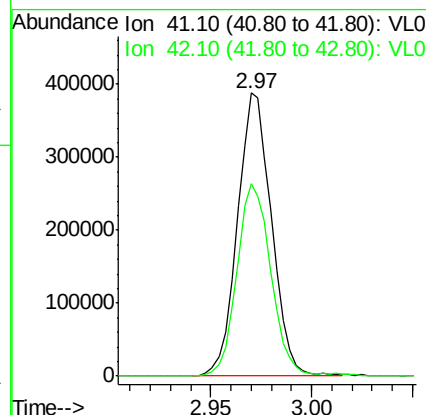
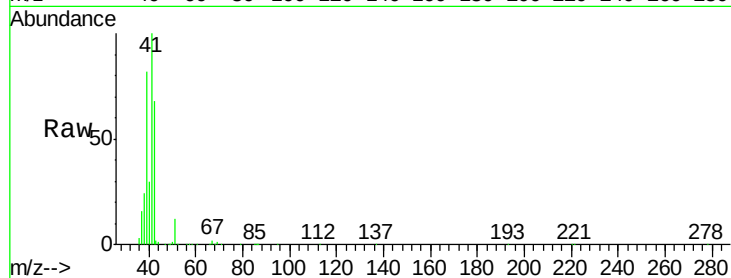
#9
 Propene
 Concen: 9.295 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion: 41 Resp: 459792
 Ion Ratio Lower Upper
 41 100
 42 68.5 54.9 82.3

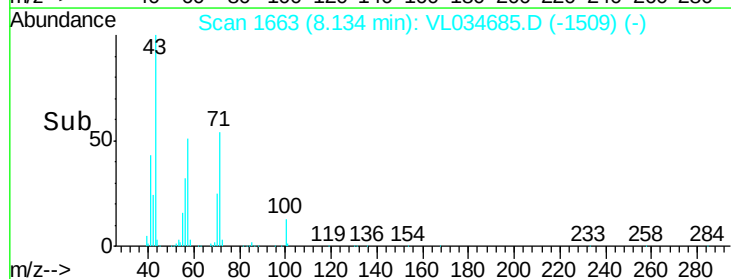
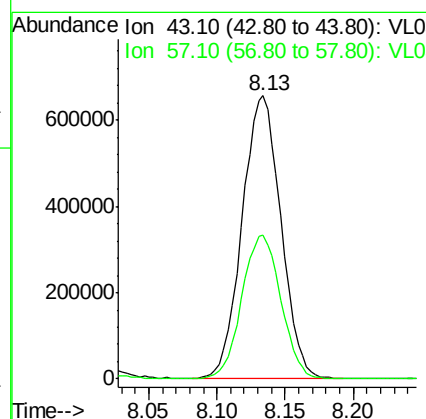
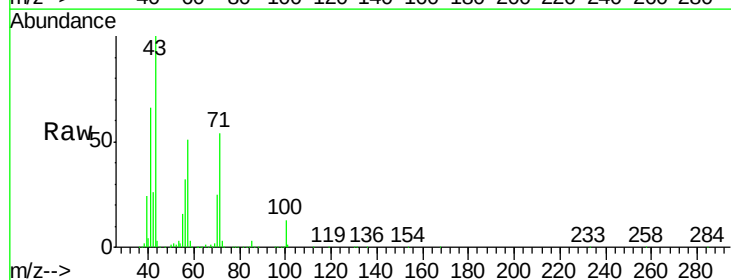
Manual Integrations
 APPROVED

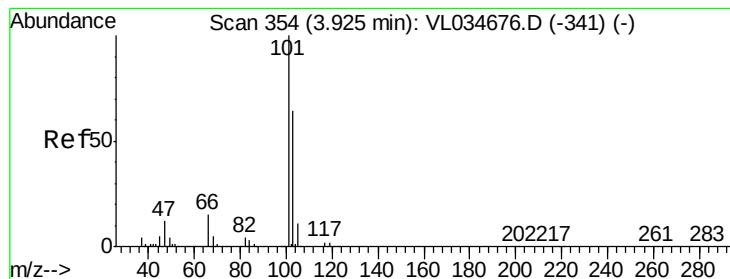
MMDadoda
 2/27/2020 5:19:44 PM



#10
 Heptane
 Concen: 10.158 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion: 43 Resp: 1293337
 Ion Ratio Lower Upper
 43 100
 57 51.3 41.0 61.6





#11

Trichlorofluoromethane

Concen: 9.074 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion:101 Resp: 1374853

Ion Ratio Lower Upper

101 100

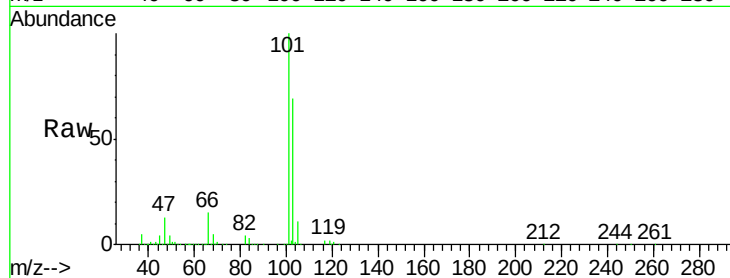
103 69.2 51.2 76.8

Manual Integrations

APPROVED

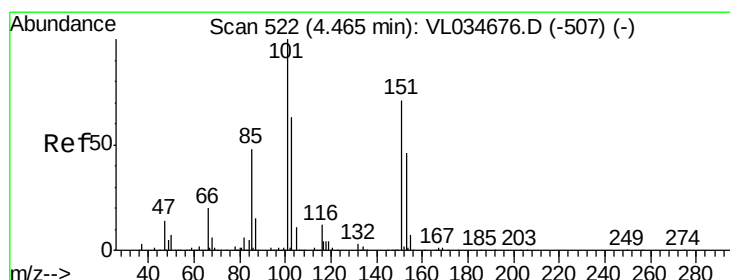
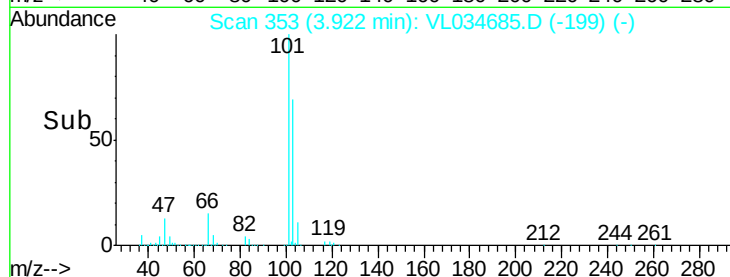
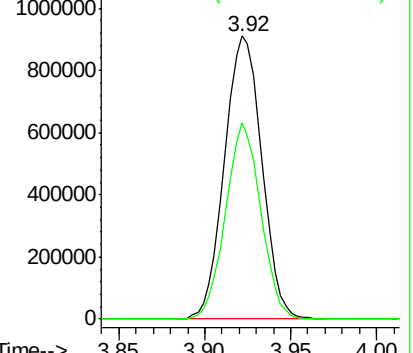
MMDadoda

2/27/2020 5:19:44 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.910 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034685.D

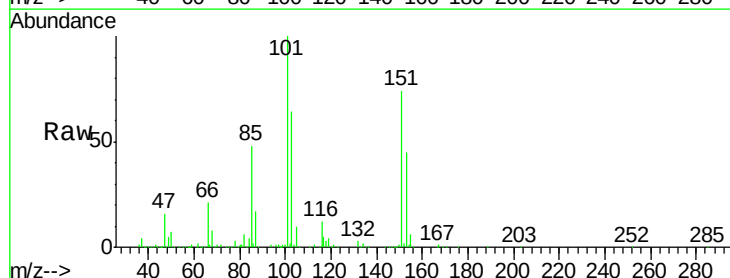
Acq: 26 Feb 2020 8:55

Tgt Ion:101 Resp: 951548

Ion Ratio Lower Upper

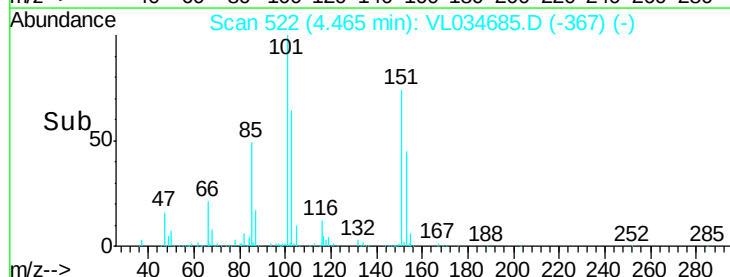
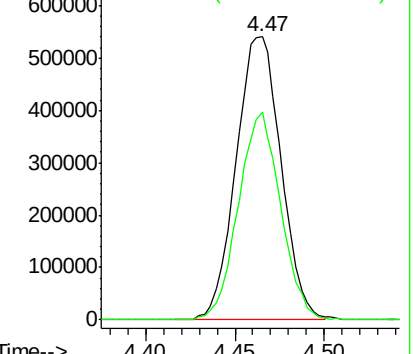
101 100

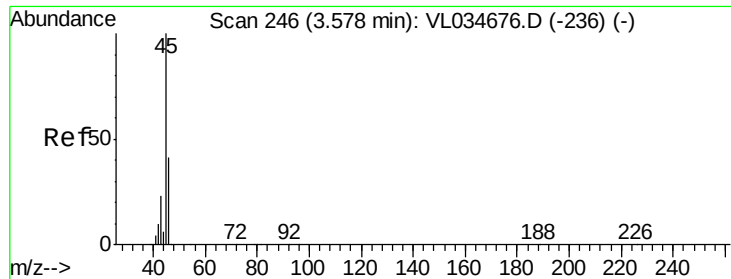
151 69.3 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





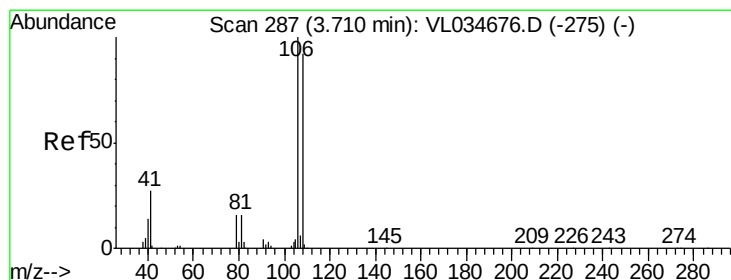
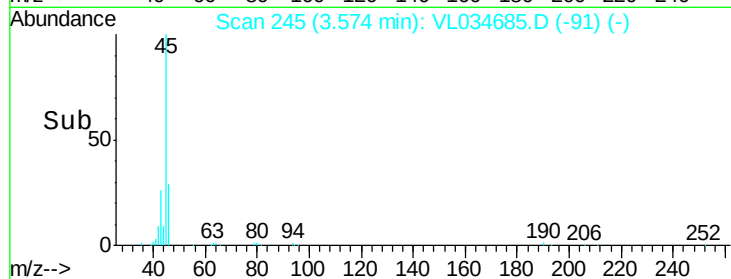
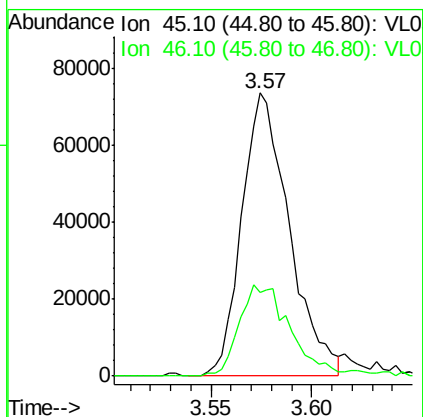
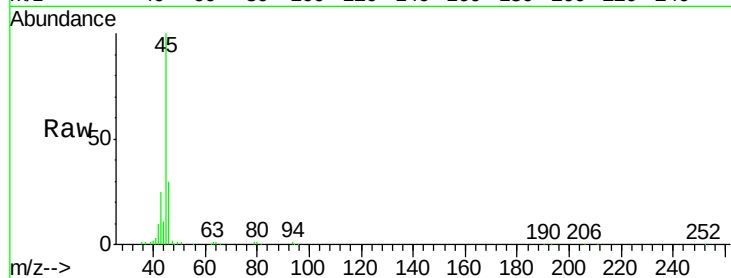
#13
Ethanol
Concen: 7.758 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	45	Resp	121232
Ion Ratio	100	Lower	Upper
46	35.6	15.4	61.4

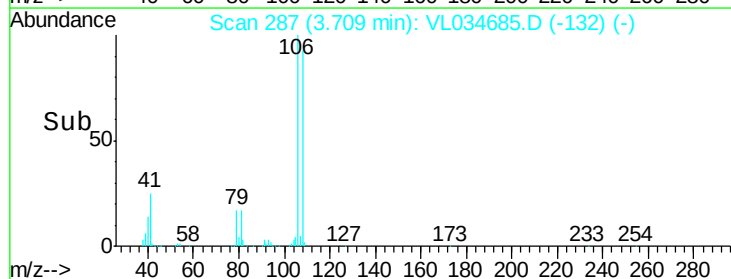
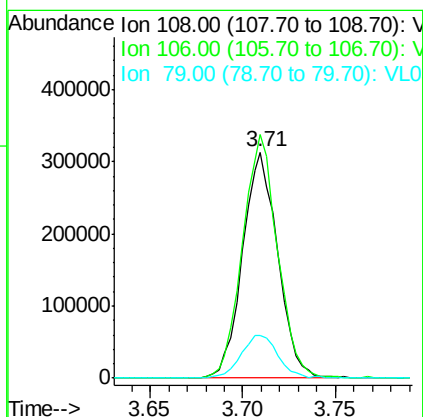
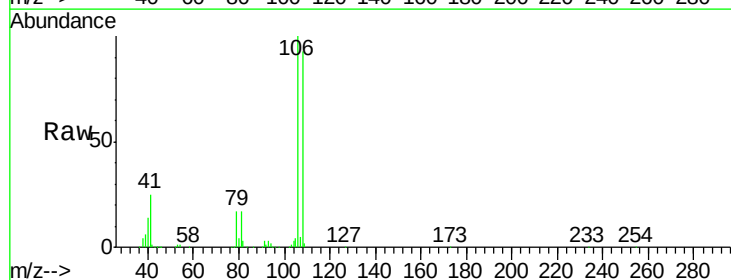
Manual Integrations
APPROVED

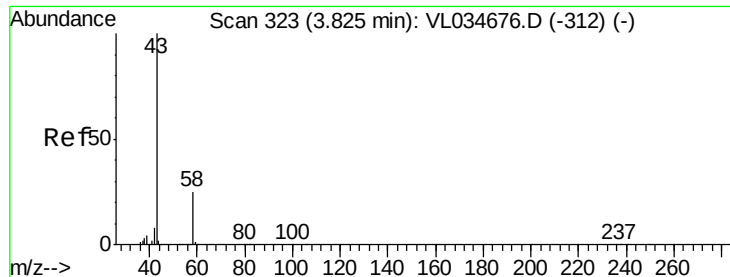
MMDadoda
2/27/2020 5:19:44 PM



#14
Bromoethene
Concen: 9.239 ppbv
RT: 3.71 min Scan# 287
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	108	Resp	411685
Ion Ratio	100	Lower	Upper
106	107.8	86.7	130.1
79	20.2	15.0	22.6





#15

Acetone

Concen: 8.655 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 43 Resp: 1081448

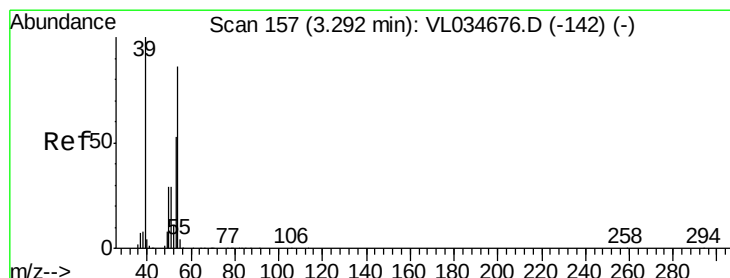
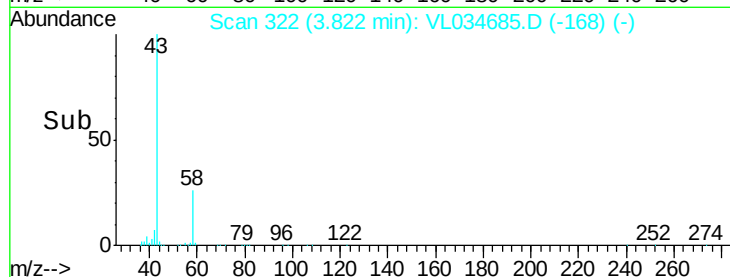
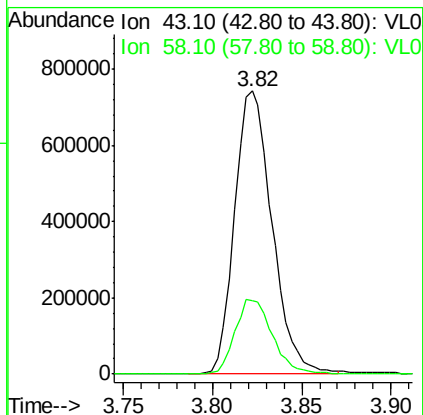
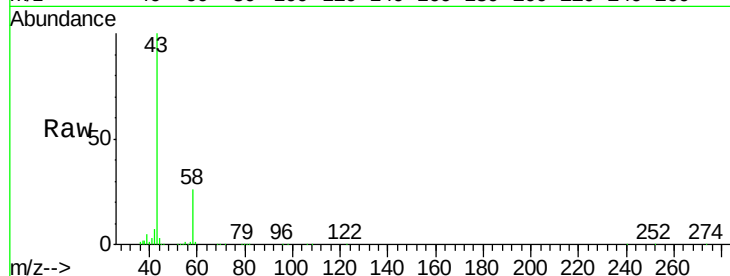
Ion Ratio Lower Upper

43 100

58 26.7 21.4 32.0

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



#16

1,3-Butadiene

Concen: 9.612 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034685.D

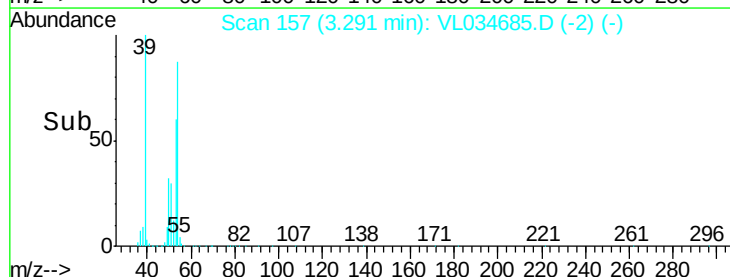
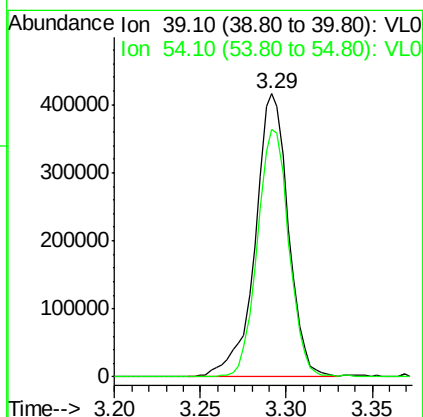
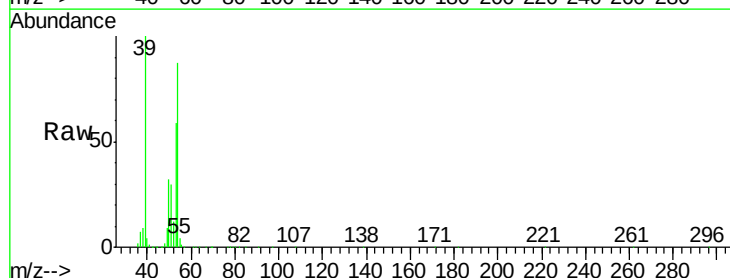
Acq: 26 Feb 2020 8:55

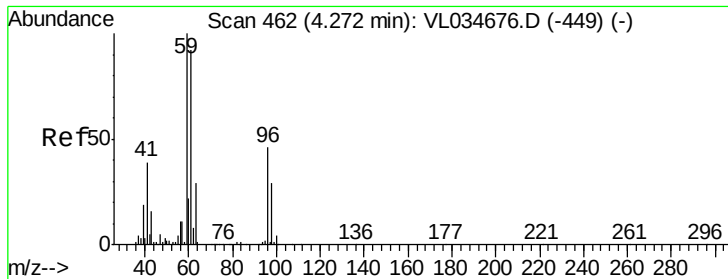
Tgt Ion: 39 Resp: 556001

Ion Ratio Lower Upper

39 100

54 83.3 67.0 100.6





#17

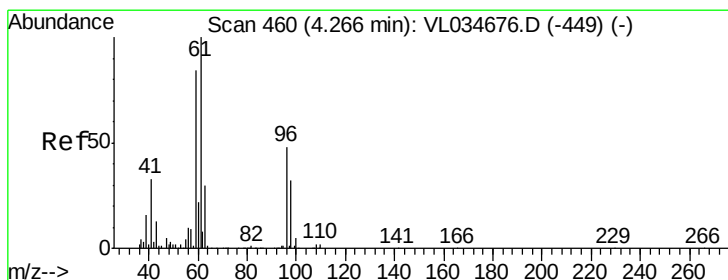
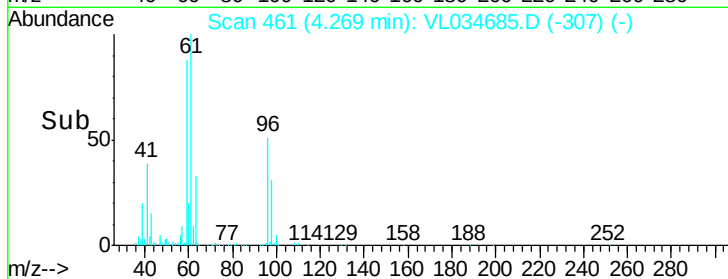
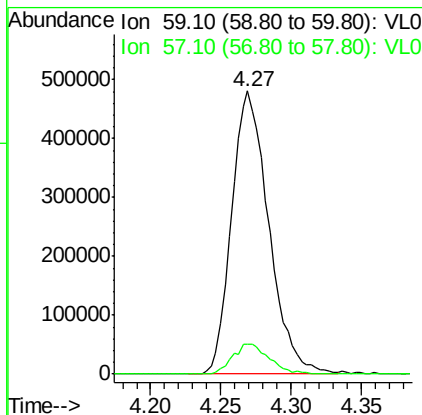
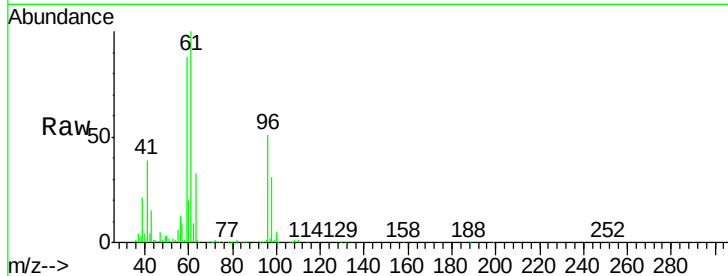
tert-Butyl alcohol
Concen: 9.252 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.8	13.2

Manual Integrations
APPROVED

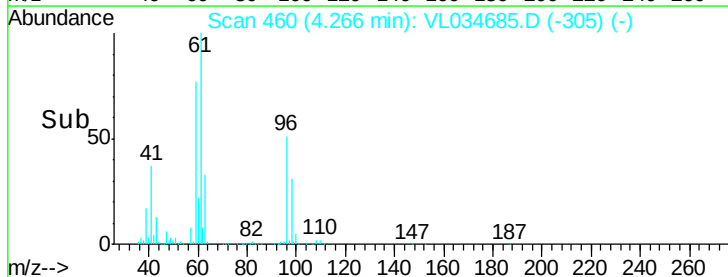
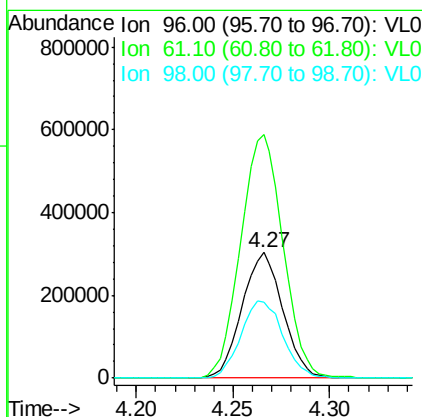
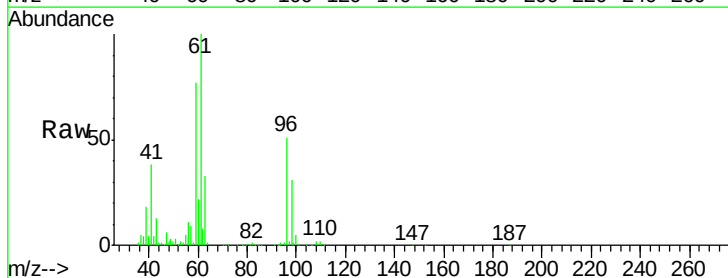
MMDadoda
2/27/2020 5:19:44 PM

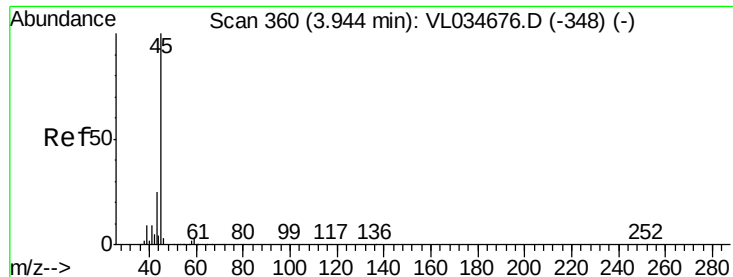


#18

1,1-Dichloroethene
Concen: 9.269 ppbv
RT: 4.27 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	193.8	165.1	247.7
98	61.0	52.7	79.1





#19

Isopropyl Alcohol

Concen: 9.972 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 45 Resp: 742202

Ion Ratio Lower Upper

45 100

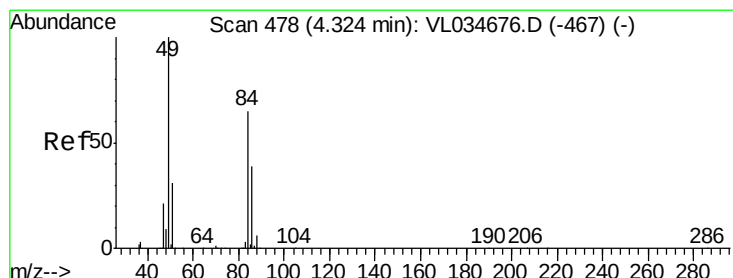
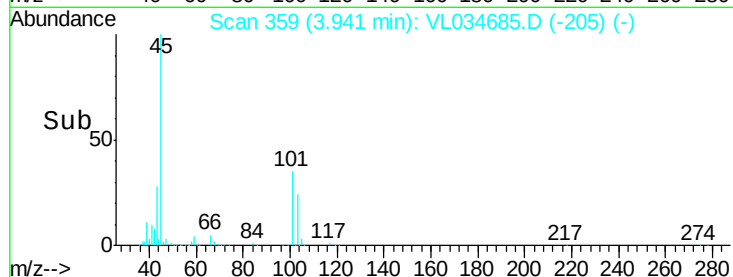
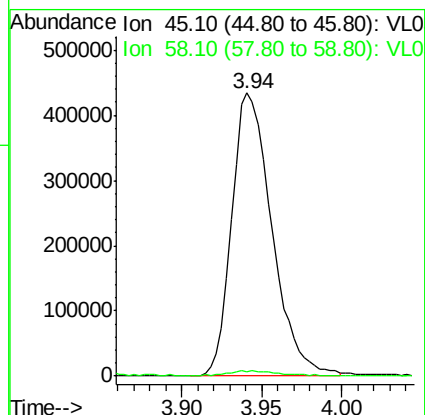
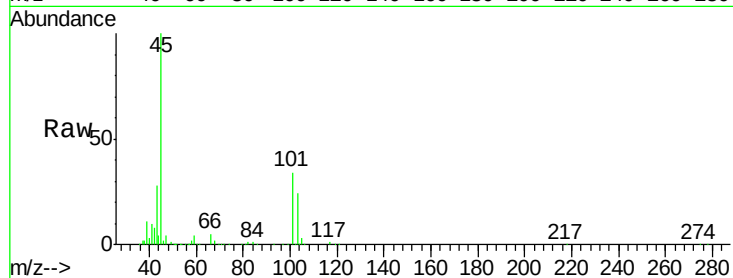
58 2.5 1.8 2.6

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:44 PM



#20

Methylene Chloride

Concen: 8.399 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion: 84 Resp: 390303

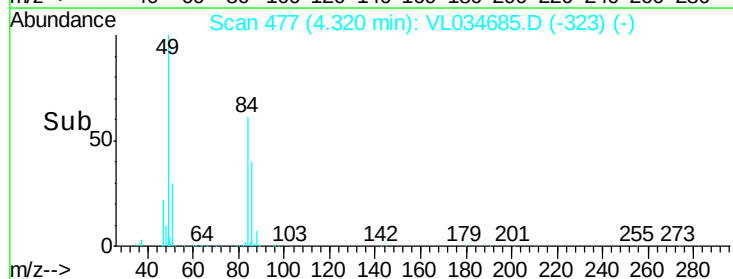
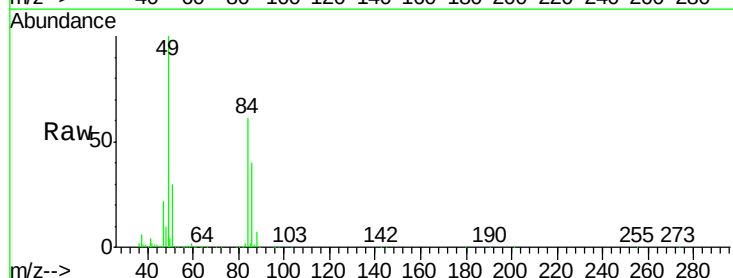
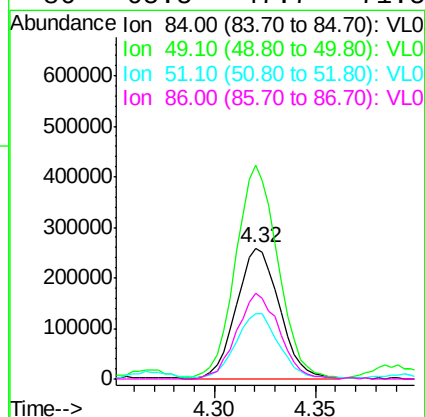
Ion Ratio Lower Upper

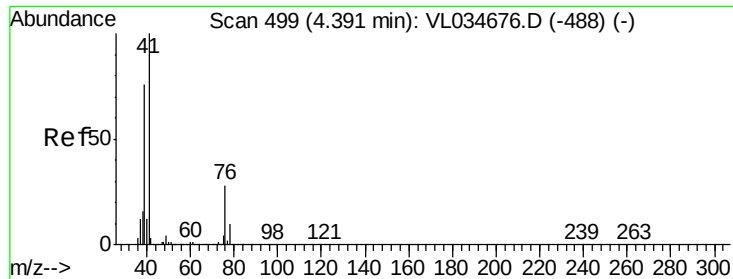
84 100

49 161.4 122.8 184.2

51 48.9 38.6 58.0

86 65.5 47.7 71.5





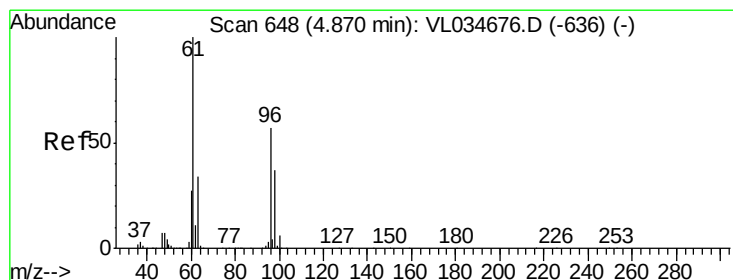
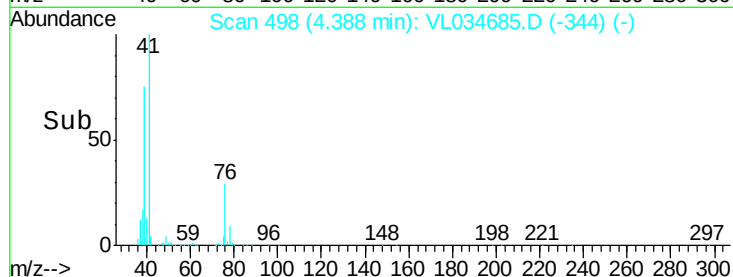
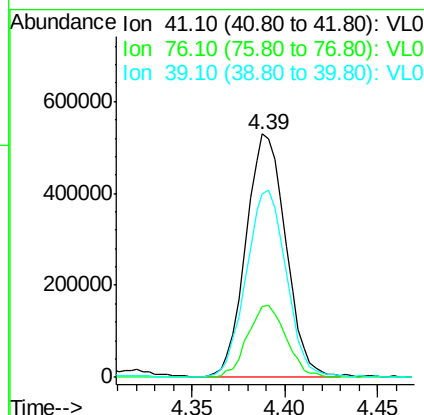
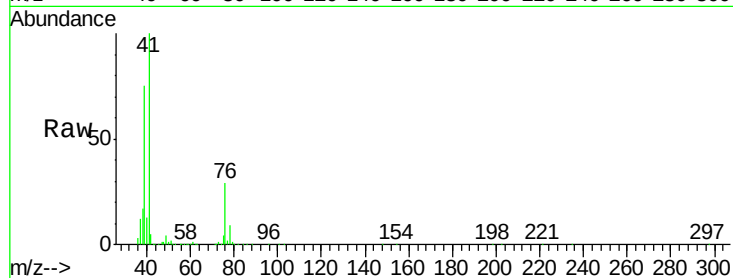
#21
Allvl Chloride
Concen: 9.506 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.0	22.8	34.2
39	77.8	61.7	92.5

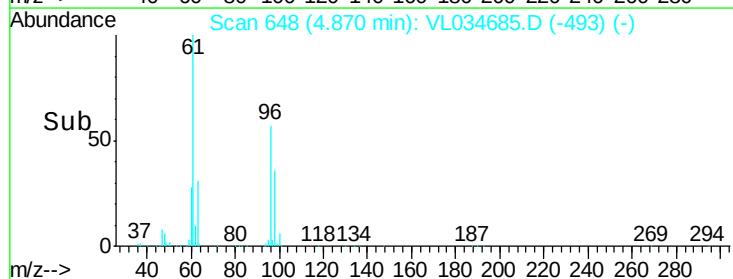
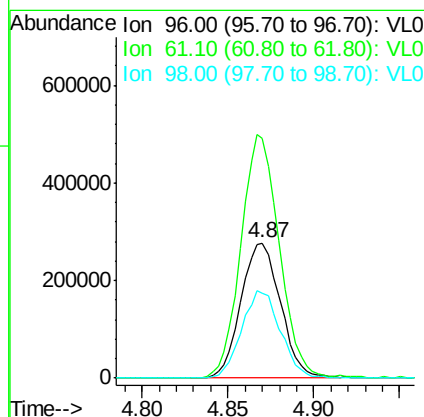
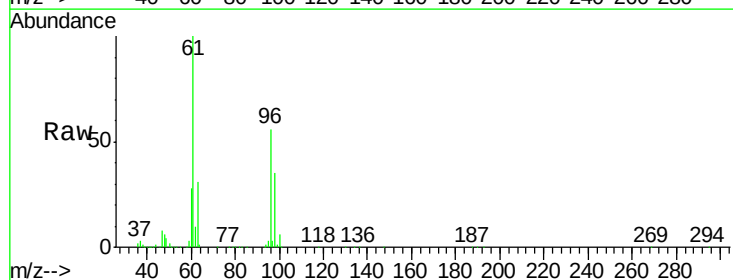
Manual Integrations
APPROVED

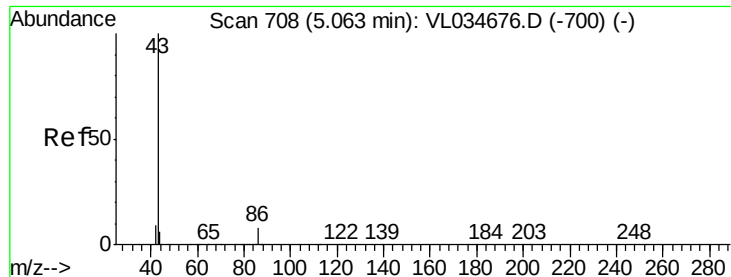
MMDadoda
2/27/2020 5:19:44 PM



#22
trans-1,2-Dichloroethene
Concen: 9.442 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.4	139.4	209.0
98	62.8	51.3	76.9





#23

Vinyl Acetate

Concen: 10.106 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034685.D

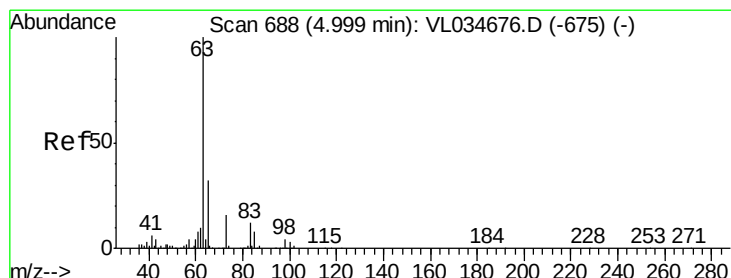
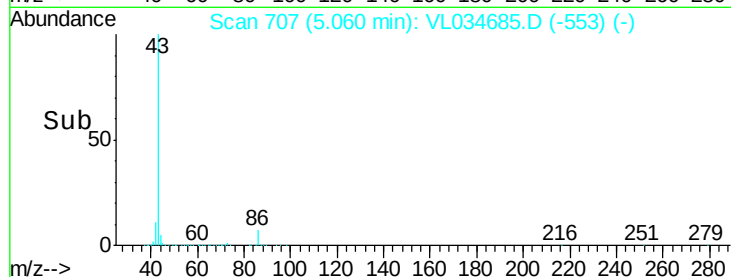
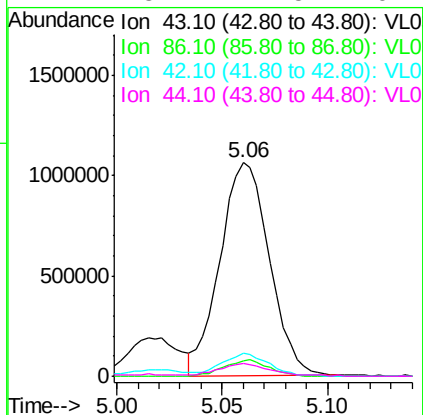
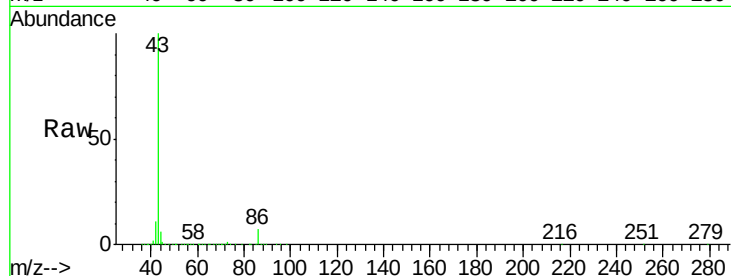
Acq: 26 Feb 2020 8:55

Tot Ion:	43	Resp:	1716661
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.0	9.0
42	10.6	8.0	12.0
44	5.4	4.5	6.7

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



#24

1,1-Dichloroethane

Concen: 9.149 ppbv

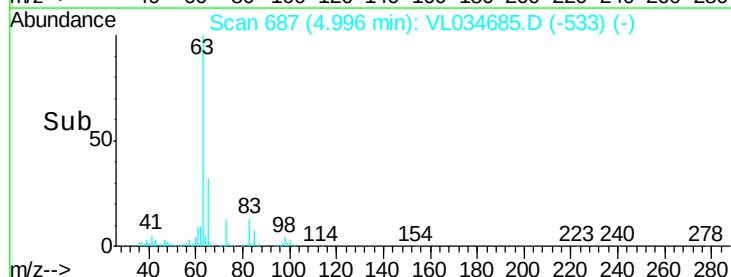
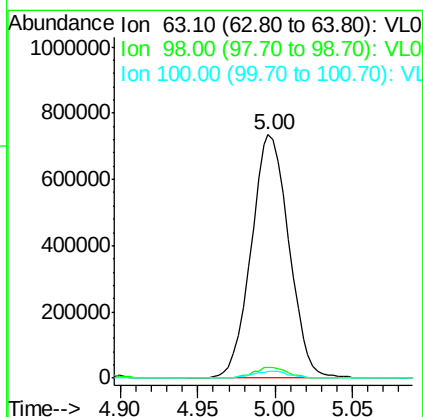
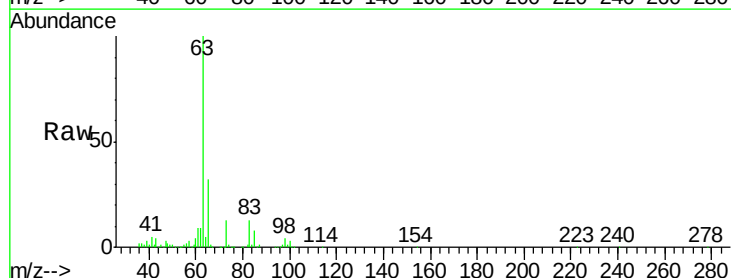
RT: 5.00 min Scan# 687

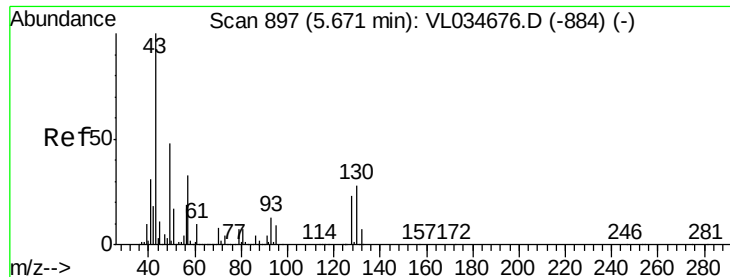
Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion:	63	Resp:	1241267
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.2
100	2.8	1.4	4.0





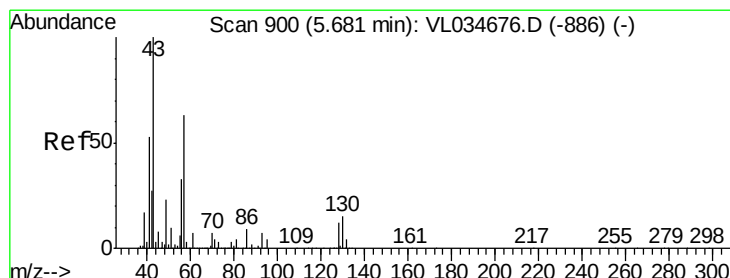
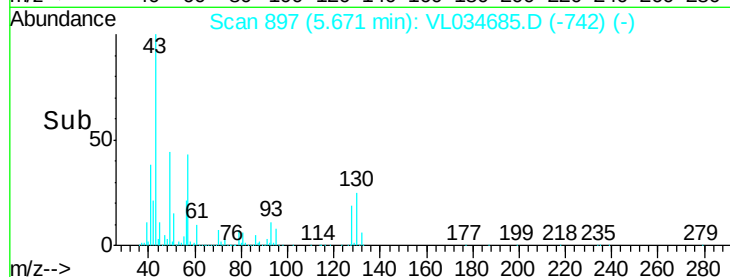
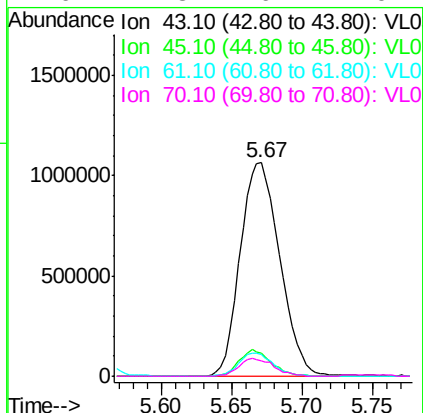
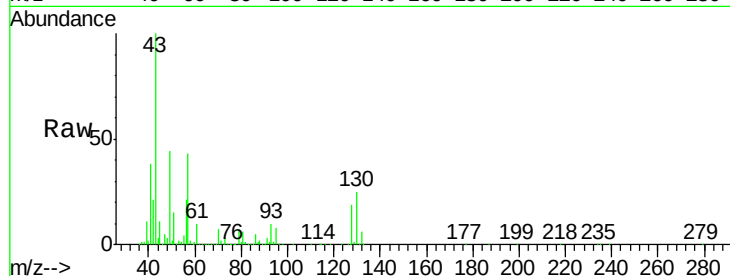
#25
Ethyl Acetate
Concen: 9.458 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.2	12.4	
61	9.6	7.8	11.6	
70	7.3	6.1	9.1	

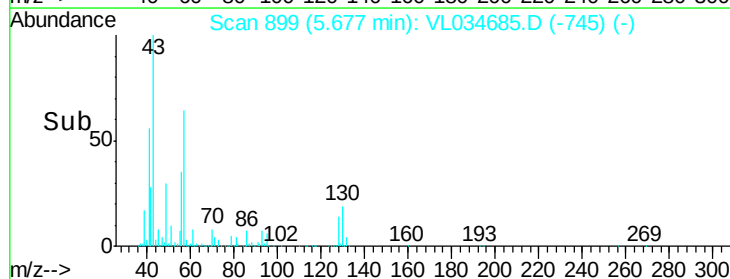
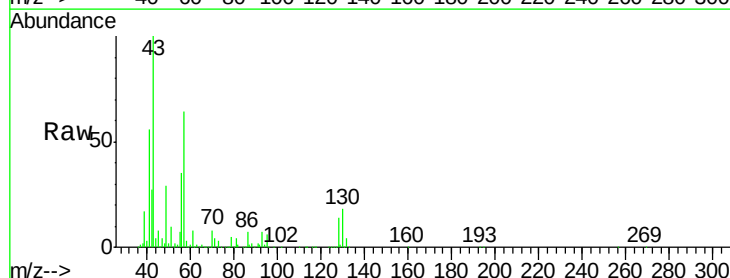
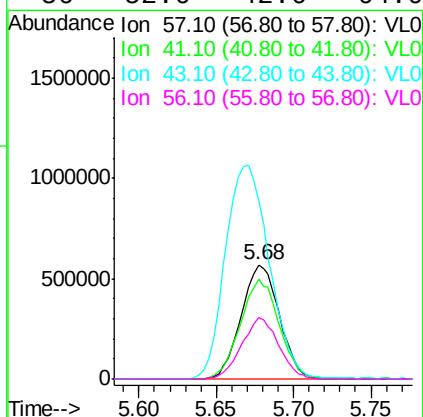
Manual Integrations
APPROVED

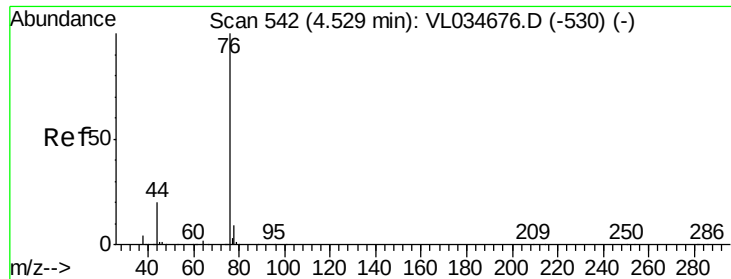
MMDadoda
2/27/2020 5:19:44 PM



#26
Hexane
Concen: 9.562 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.5	70.3	105.5	
43	216.0	177.0	265.4	
56	52.6	42.6	64.0	





#27

Carbon Disulfide

Concen: 10.113 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 76 Resp: 1170279

Ion Ratio Lower Upper

76 100

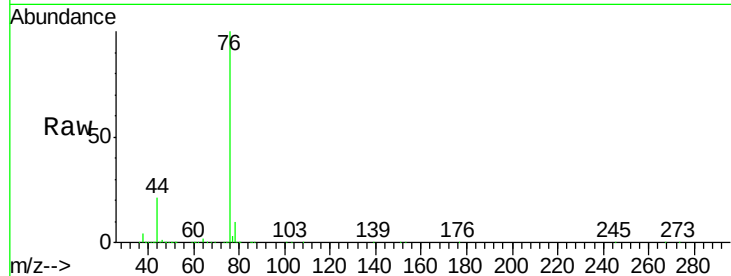
44 19.6 15.3 22.9

78 9.2 7.6 11.4

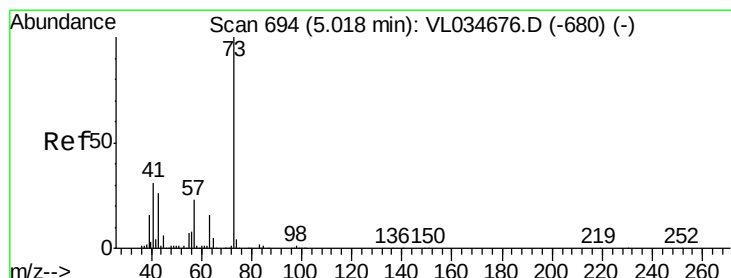
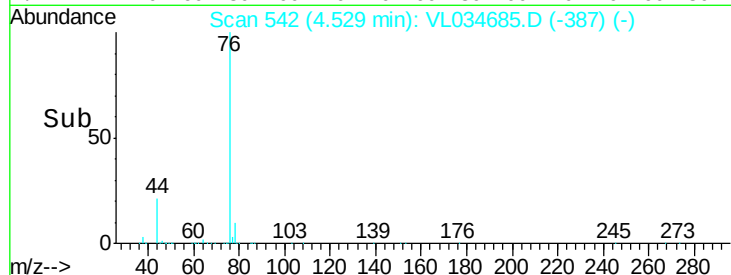
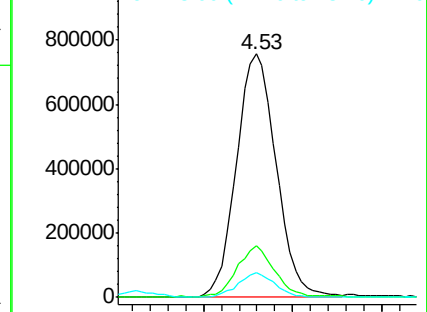
Manual Integrations
APPROVED

MMDadoda

2/27/2020 5:19:44 PM



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



#28

Methyl tert-Butyl Ether

Concen: 9.046 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034685.D

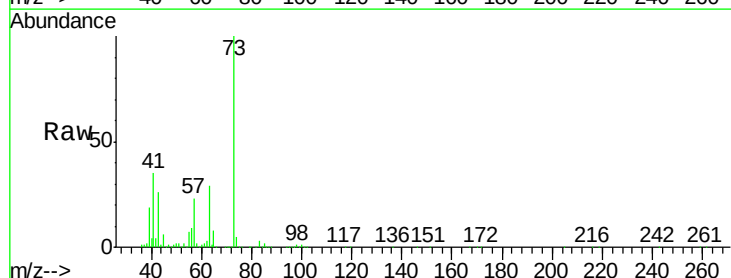
Acq: 26 Feb 2020 8:55

Tgt Ion: 73 Resp: 1317433

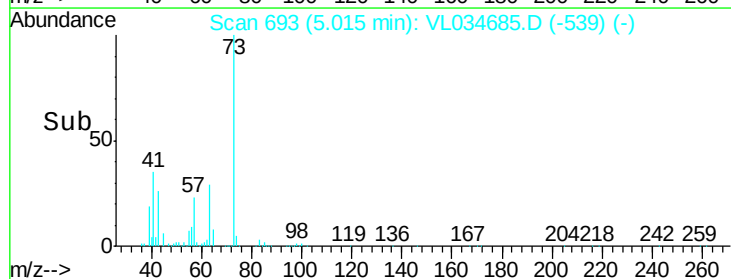
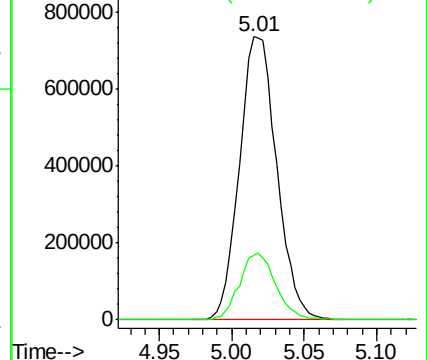
Ion Ratio Lower Upper

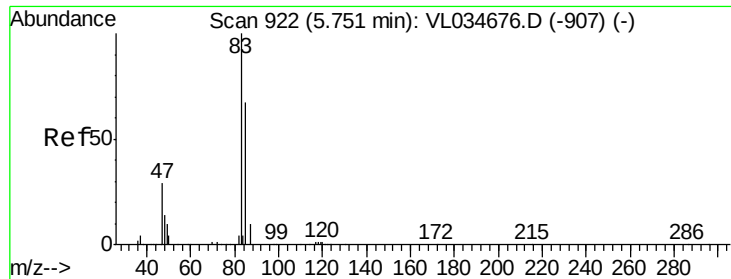
73 100

57 23.1 18.6 28.0



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





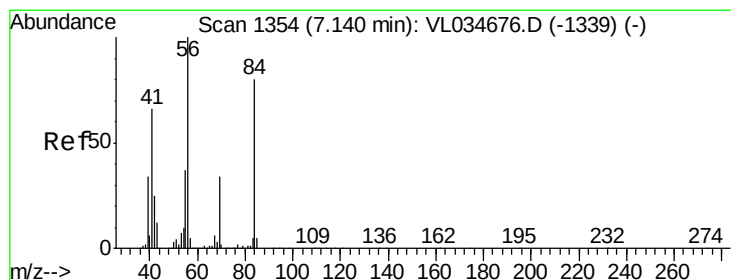
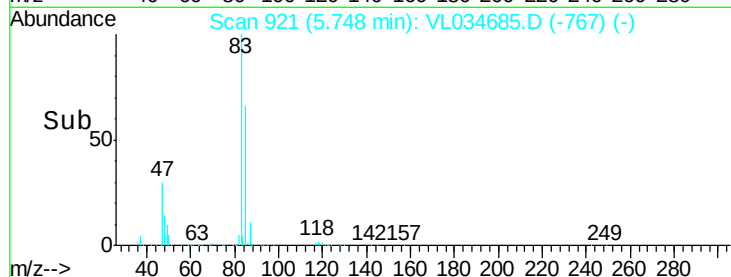
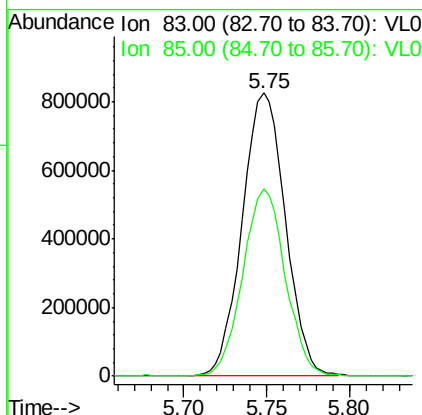
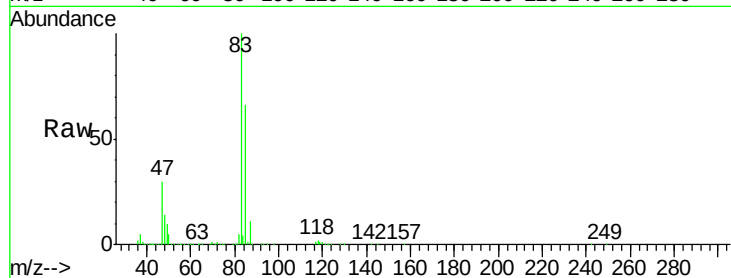
#29
Chloroform
Concen: 9.194 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion: 83 Resp: 1493387
Ion Ratio Lower Upper
83 100
85 65.9 53.9 80.9

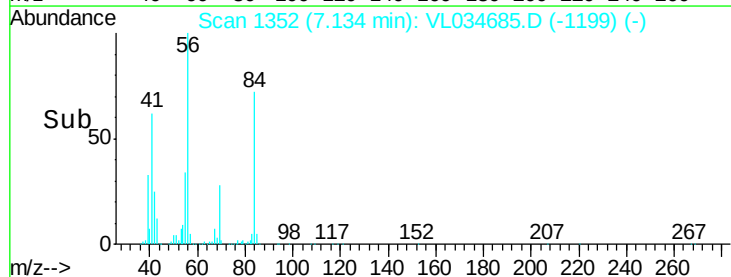
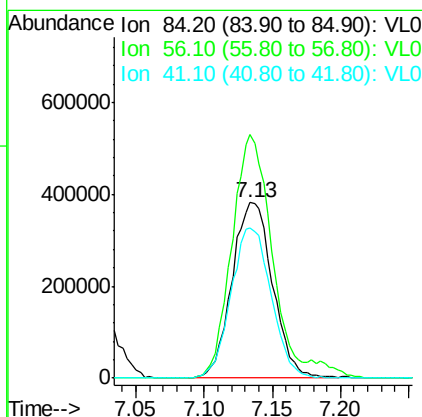
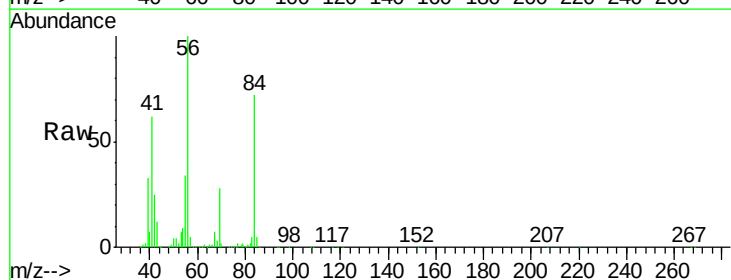
Manual Integrations
APPROVED

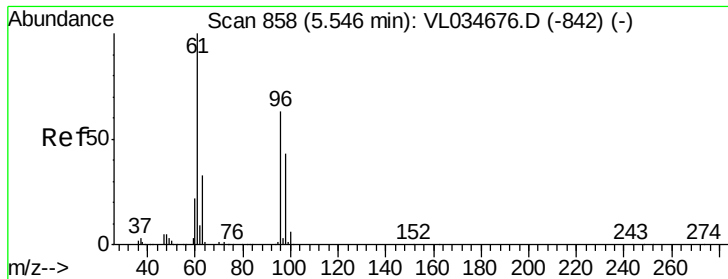
MMDadoda
2/27/2020 5:19:44 PM



#30
Cyclohexane
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion: 84 Resp: 790136
Ion Ratio Lower Upper
84 100
56 141.0 113.4 170.2
41 84.7 68.2 102.4





#31

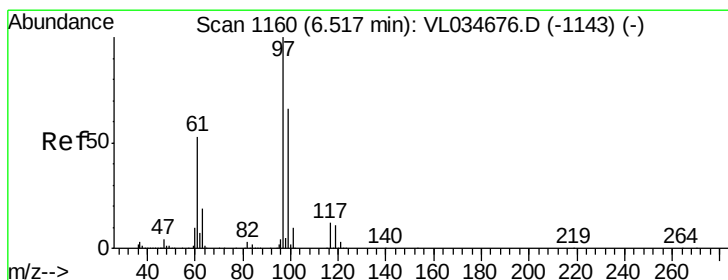
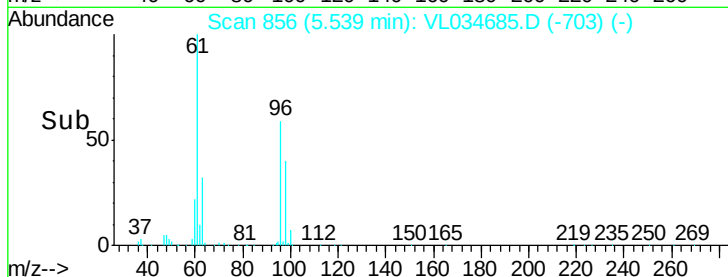
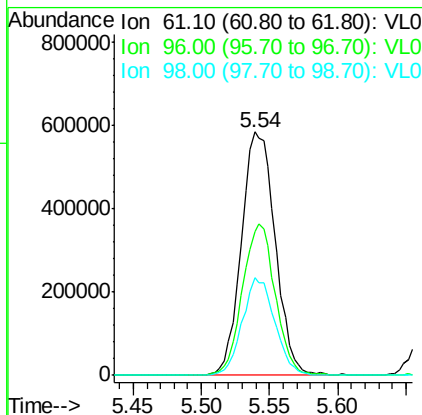
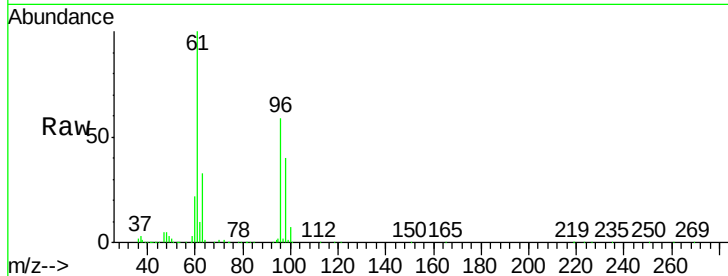
cis-1,2-Dichloroethene
Concen: 10.034 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	50.2	75.2
98	40.0	34.3	51.5

Manual Integrations
APPROVED

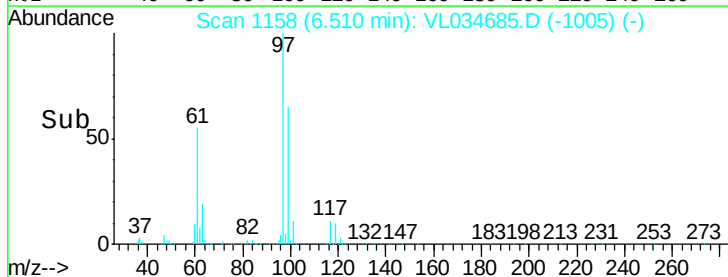
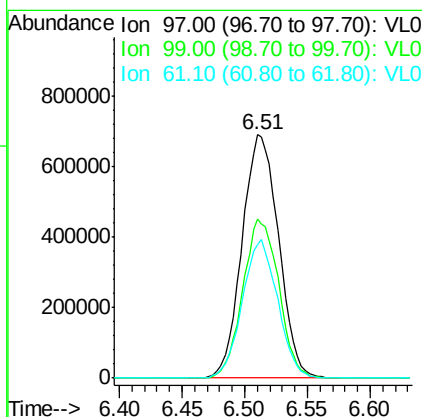
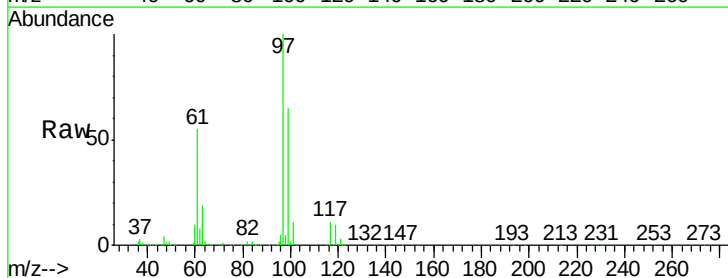
MMDadoda
2/27/2020 5:19:44 PM

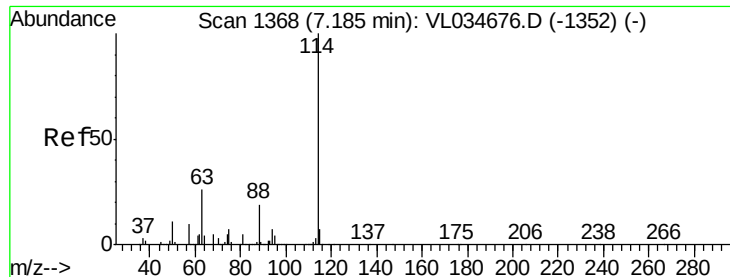


#32

1,1,1-Trichloroethane
Concen: 9.246 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	52.3	78.5
61	55.2	42.8	64.2





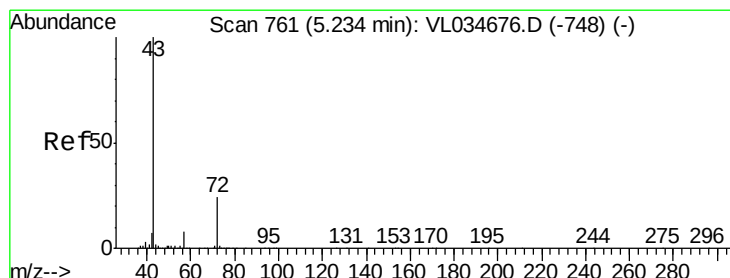
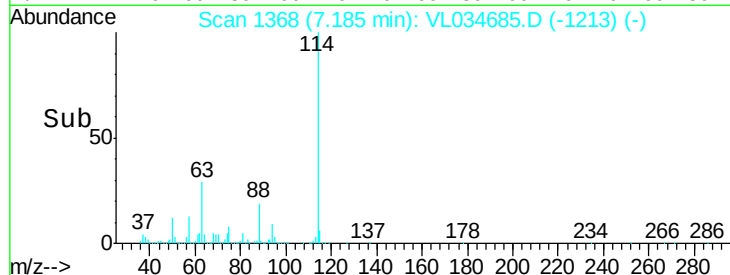
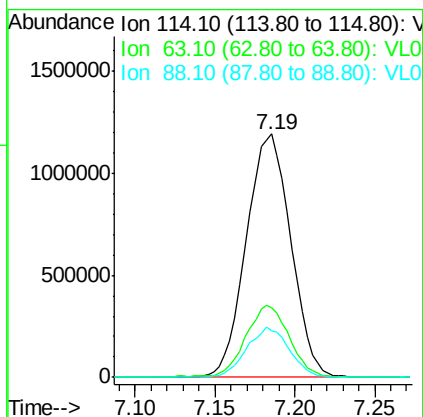
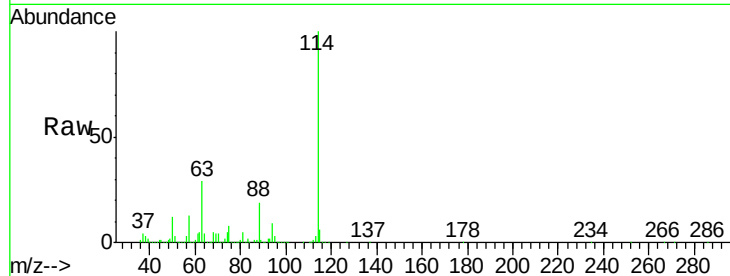
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.5	22.9	34.3
88	19.7	15.8	23.6

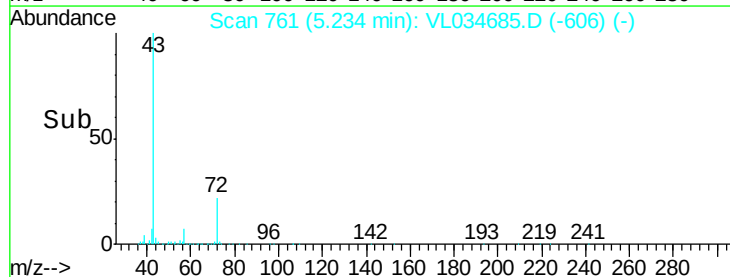
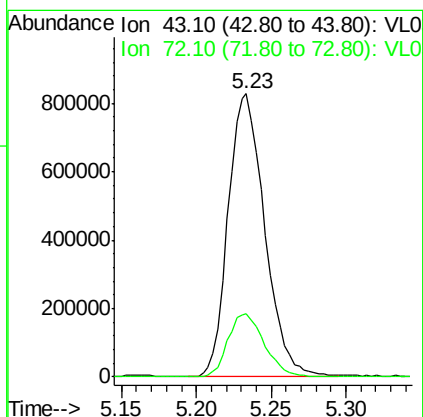
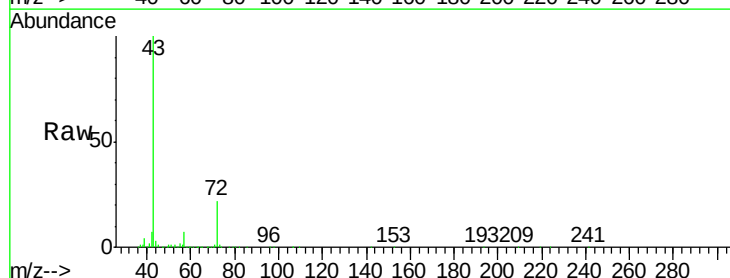
Manual Integrations
 APPROVED

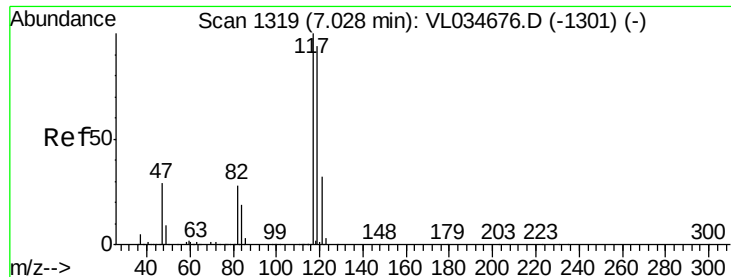
MMDadoda
 2/27/2020 5:19:44 PM



#34
 2-Butanone
 Concen: 9.825 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.2	27.2





#35

Carbon Tetrachloride

Concen: 9.692 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion:117 Resp: 1475306

Ion Ratio Lower Upper

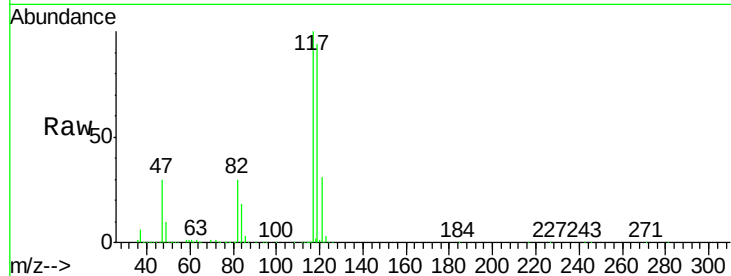
117 100

119 94.4 75.5 113.3

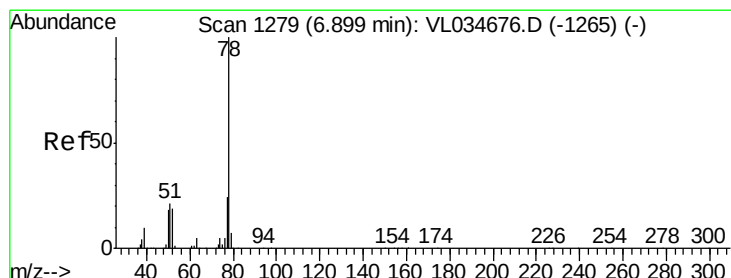
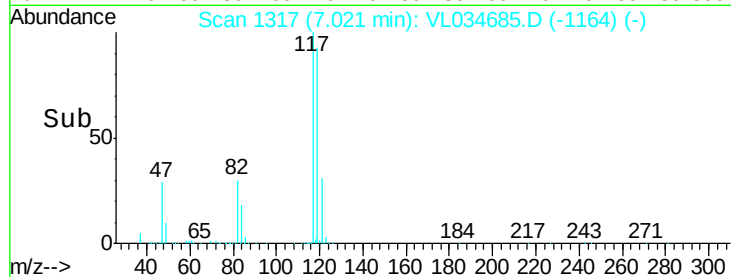
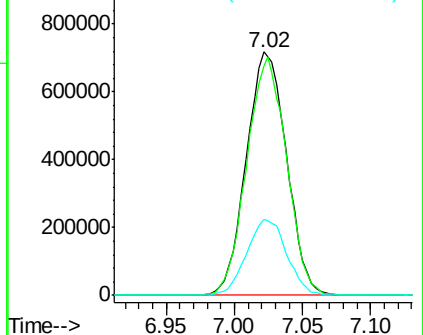
121 31.3 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



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: 9.707 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

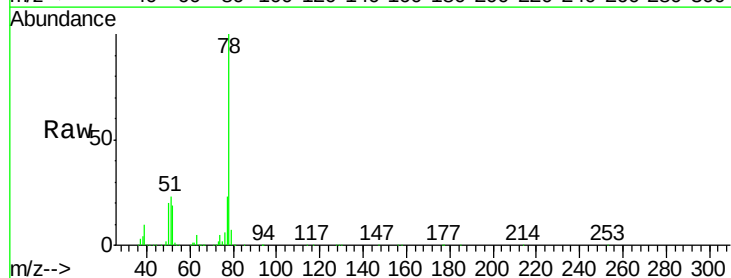
Tgt Ion: 78 Resp: 1905525

Ion Ratio Lower Upper

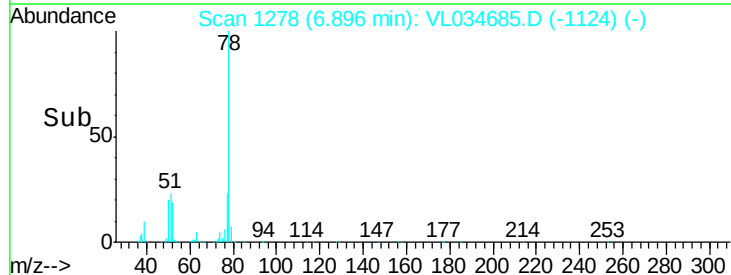
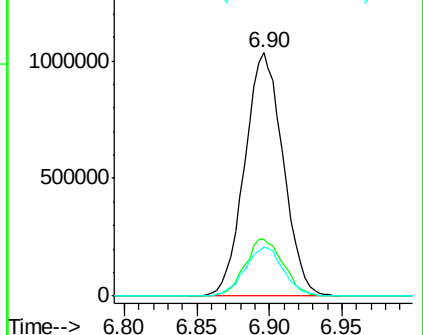
78 100

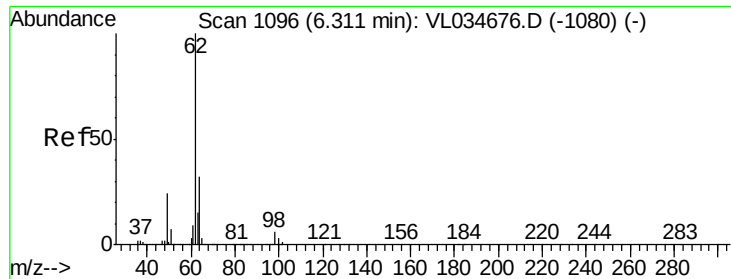
77 23.1 19.5 29.3

50 20.2 14.6 21.8



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





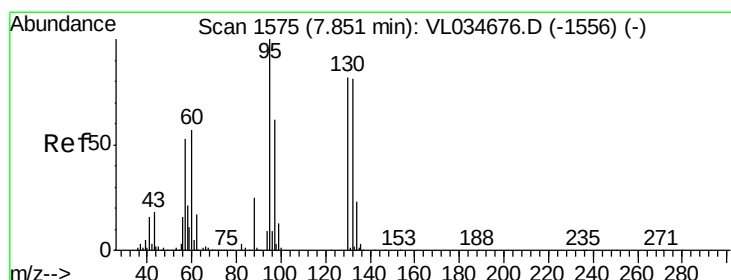
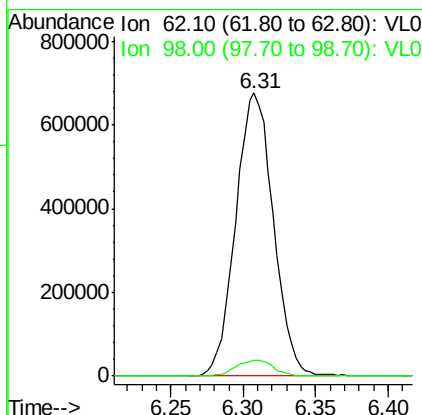
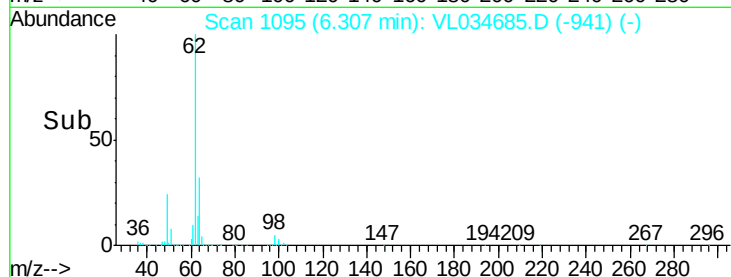
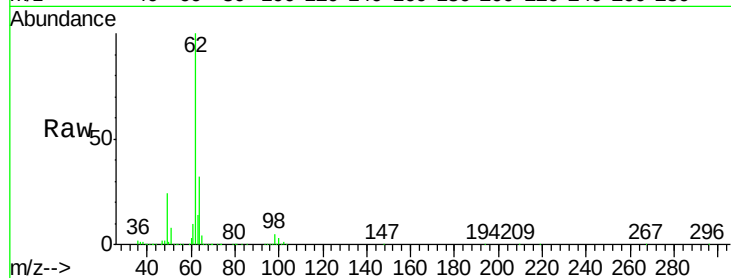
#37
 1,2-Dichloroethane
 Concen: 9.874 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion: 62 Resp: 1221893
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.7 7.1

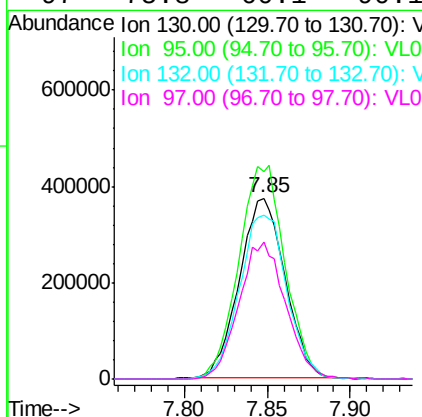
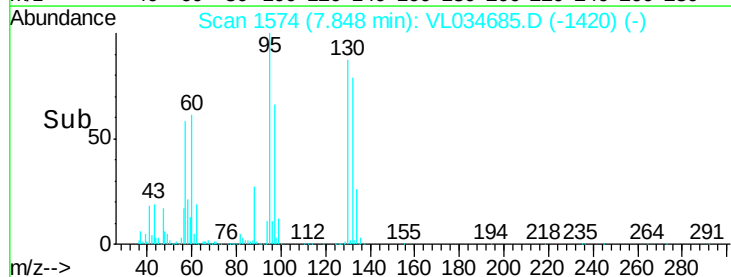
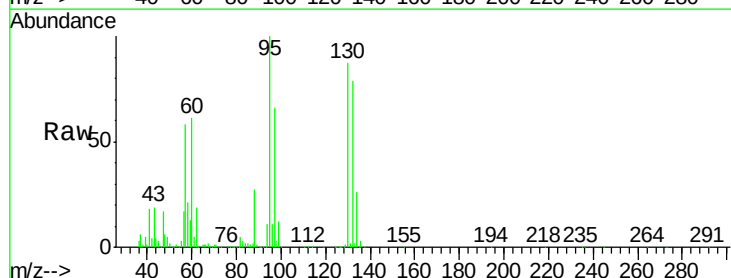
Manual Integrations
 APPROVED

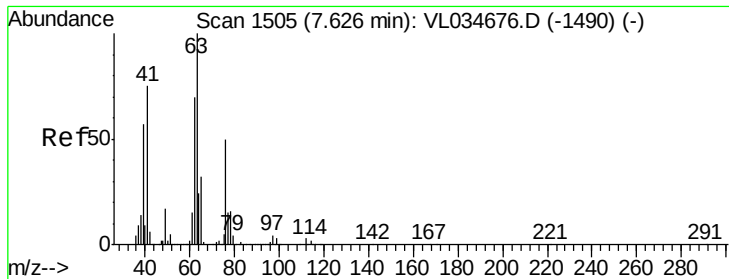
MMDadoda
 2/27/2020 5:19:44 PM



#38
 Trichloroethene
 Concen: 9.467 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion: 130 Resp: 716372
 Ion Ratio Lower Upper
 130 100
 95 115.0 97.1 145.7
 132 91.1 78.3 117.5
 97 75.8 60.1 90.1





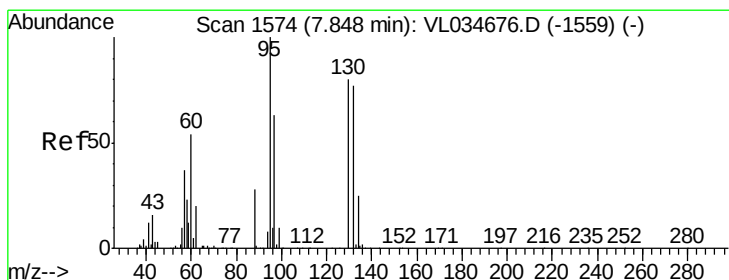
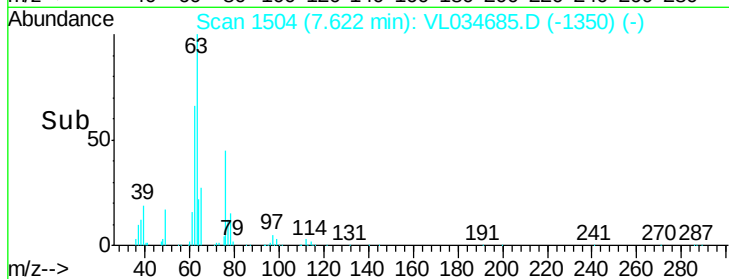
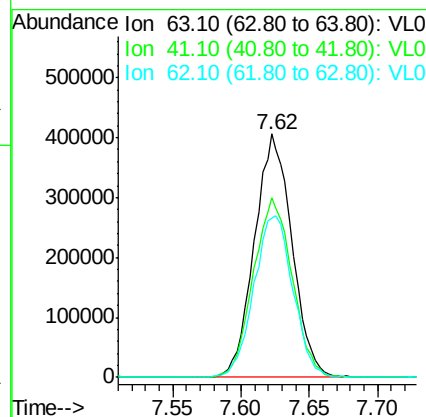
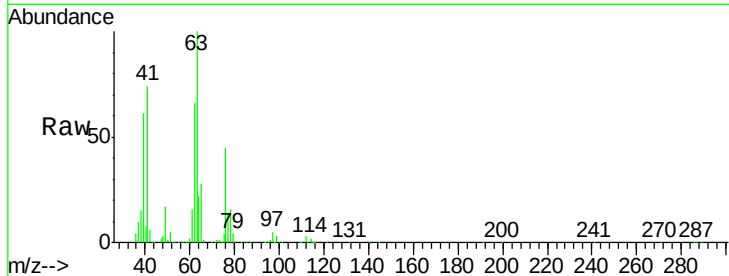
#39
 1,2-Dichloropropane
 Concen: 9.924 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.6	60.2	90.4
62	65.4	56.3	84.5

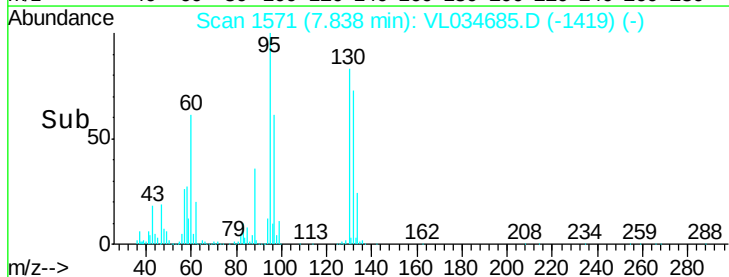
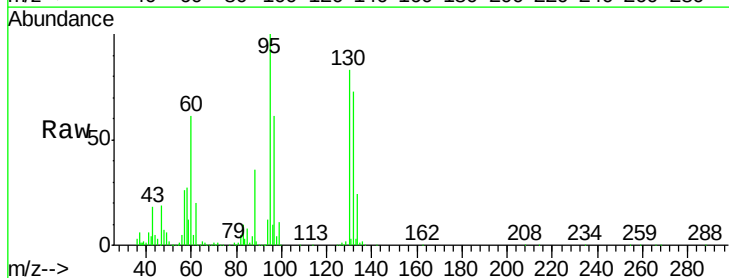
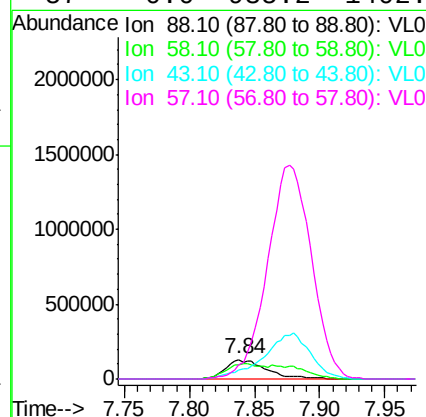
Manual Integrations
 APPROVED

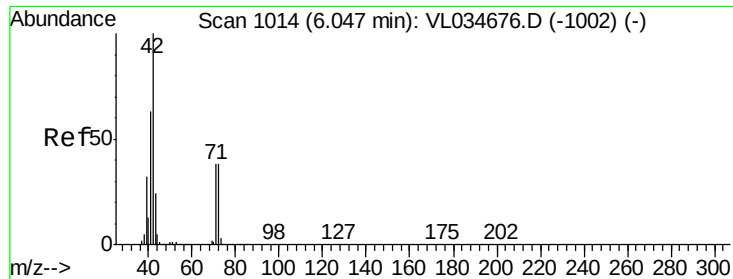
MMDadoda
 2/27/2020 5:19:44 PM



#40
 1,4-Dioxane
 Concen: 10.832 ppbv m
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.0	104.6	156.8
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





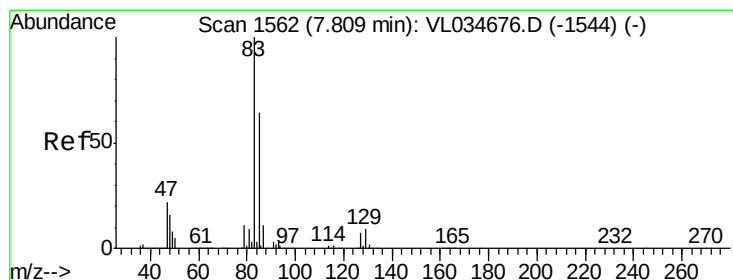
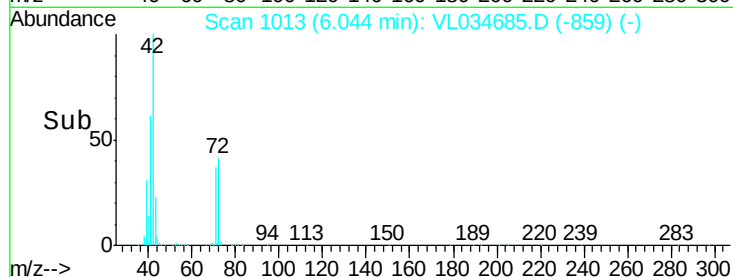
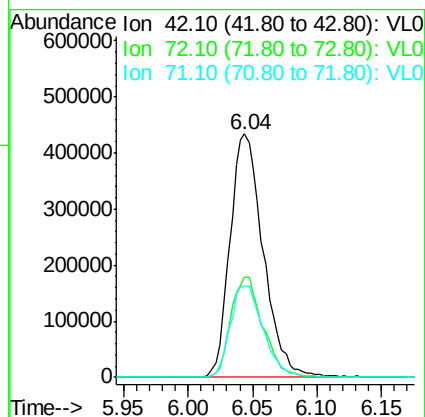
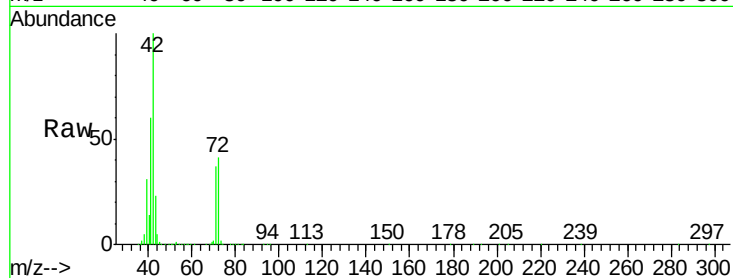
#41
Tetrahydrofuran
Concen: 10.259 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.7	47.5
71	37.8	30.7	46.1

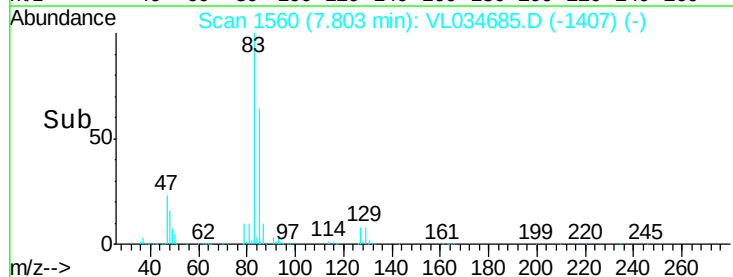
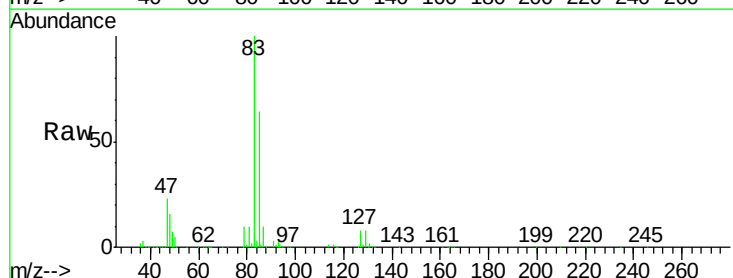
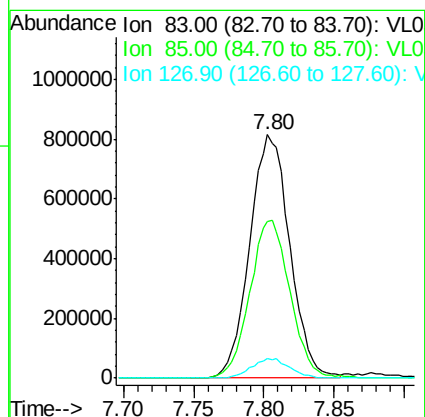
Manual Integrations
APPROVED

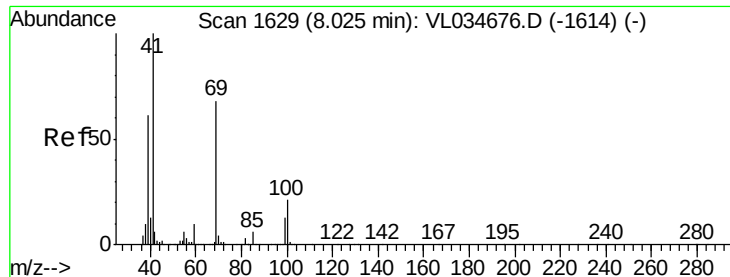
MMDadoda
2/27/2020 5:19:44 PM



#42
Bromodichloromethane
Concen: 10.000 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	8.2	5.8	8.8





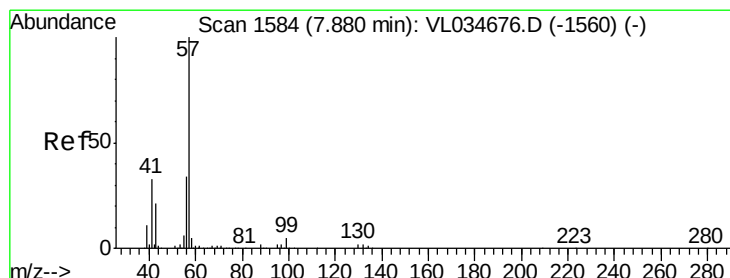
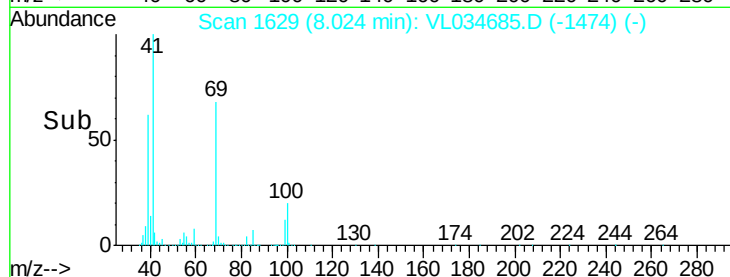
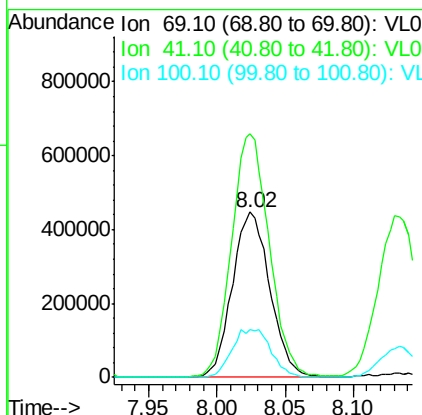
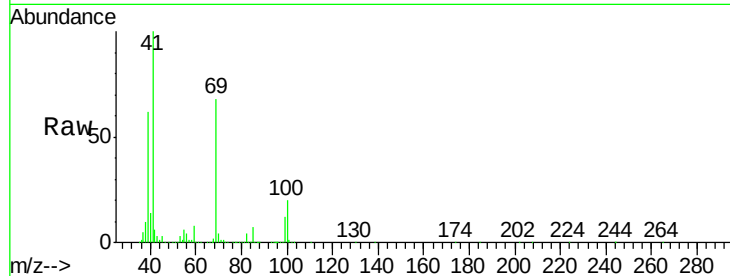
#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.7	118.2	177.2
100	30.6	24.2	36.2

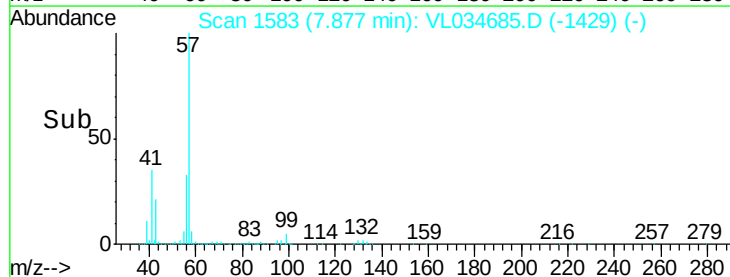
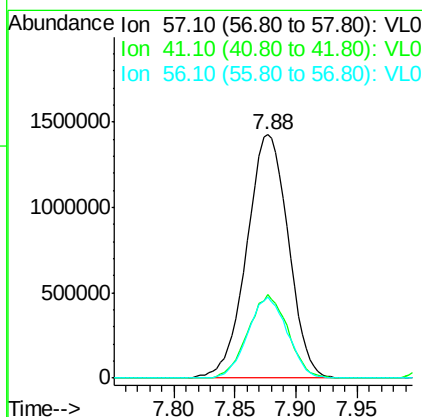
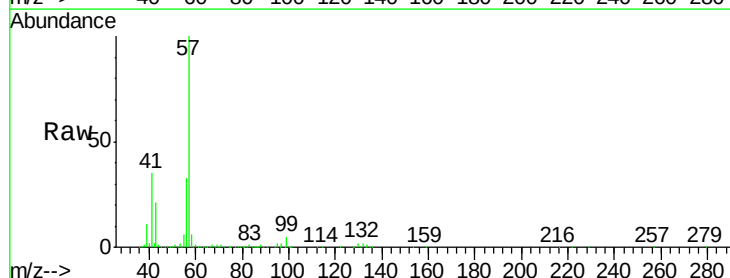
Manual Integrations
APPROVED

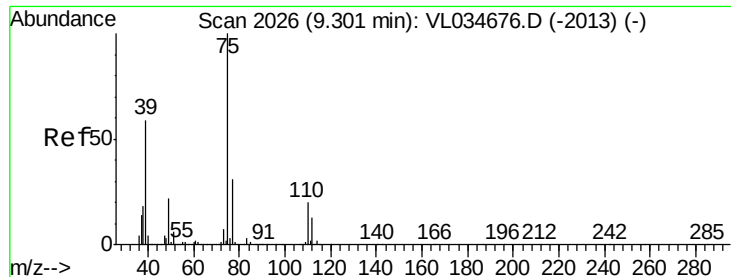
MMDadoda
2/27/2020 5:19:44 PM



#44
2,2,4-Trimethylpentane
Concen: 9.790 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	26.0	39.0
56	31.7	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 11.462 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 75 Resp: 1032747

Ion Ratio Lower Upper

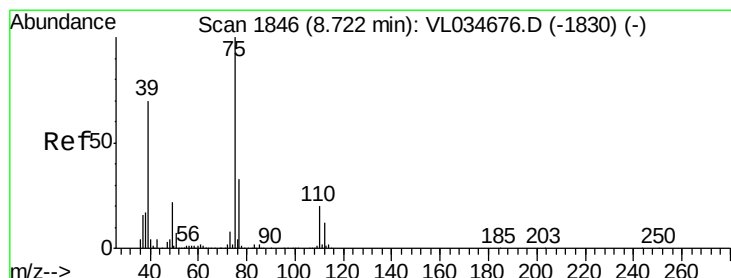
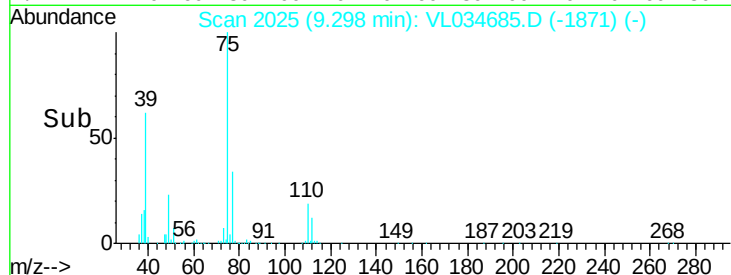
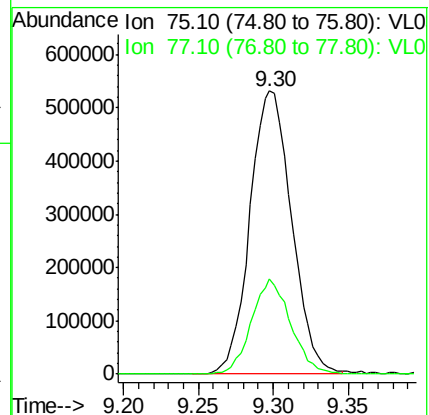
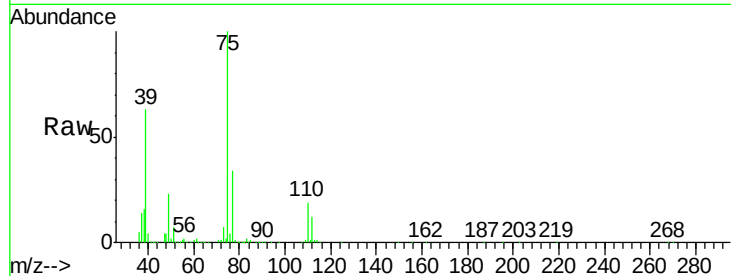
75 100

77 33.7 25.3 37.9

Manual Integrations
APPROVED

MMDadoda

2/27/2020 5:19:44 PM



#46

cis-1,3-Dichloropropene

Concen: 11.031 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

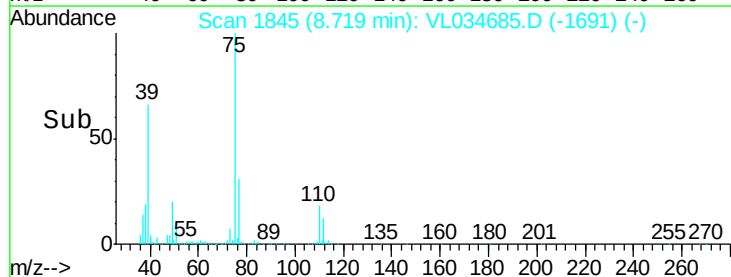
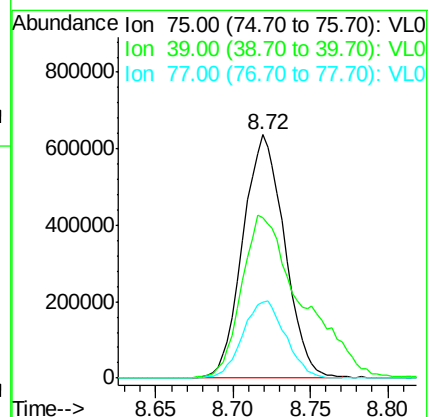
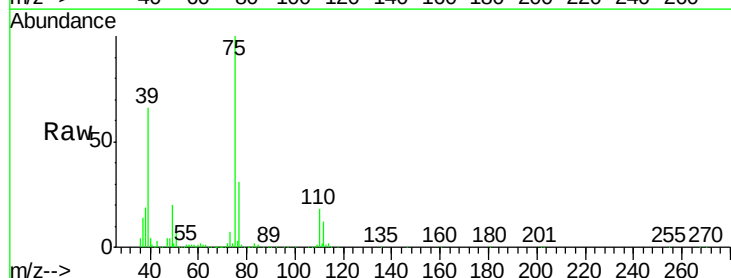
Tgt Ion: 75 Resp: 1192047

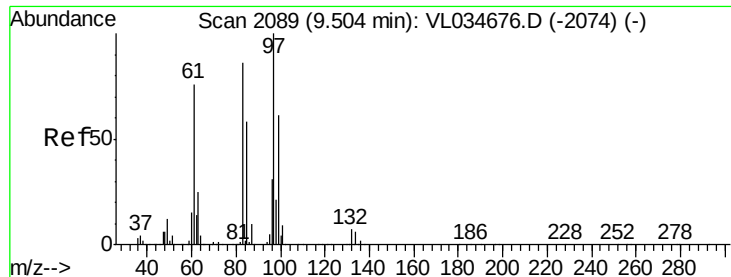
Ion Ratio Lower Upper

75 100

39 65.7 55.7 83.5

77 31.4 26.3 39.5





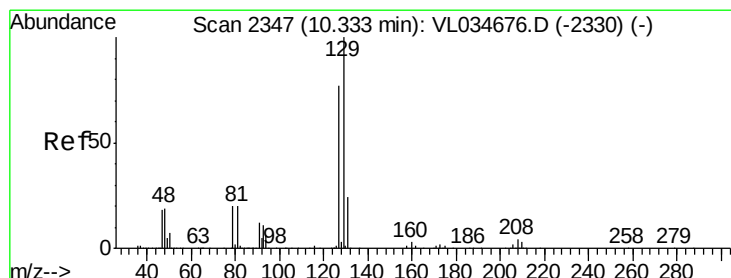
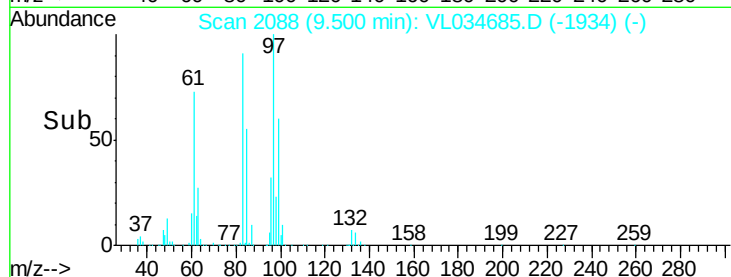
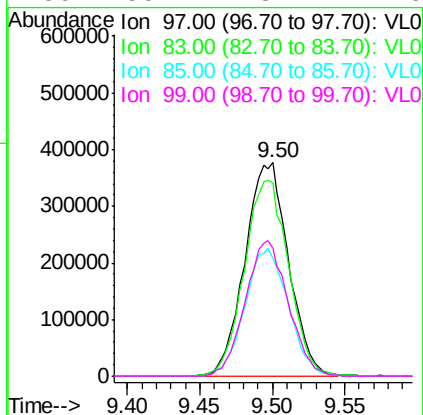
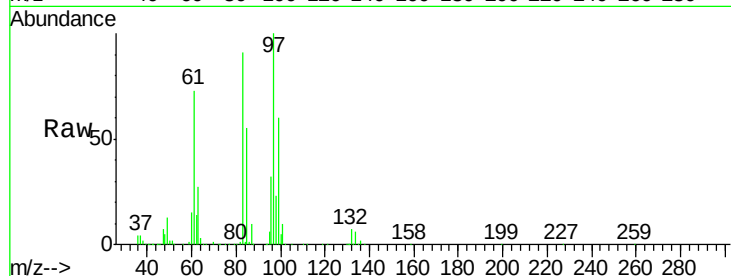
#47
 1,1,2-Trichloroethane
 Concen: 9.866 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		790531		
83	90.6	69.4	104.0		
85	54.9	46.4	69.6		
99	59.7	48.4	72.6		

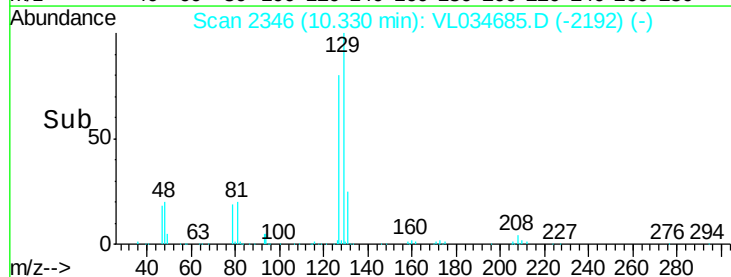
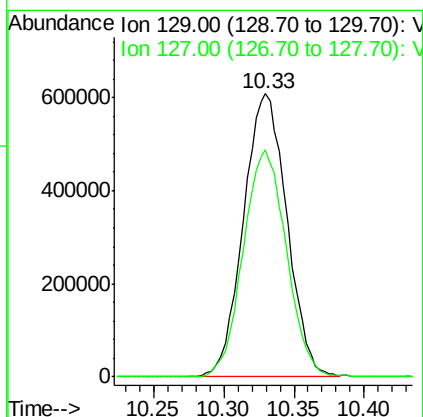
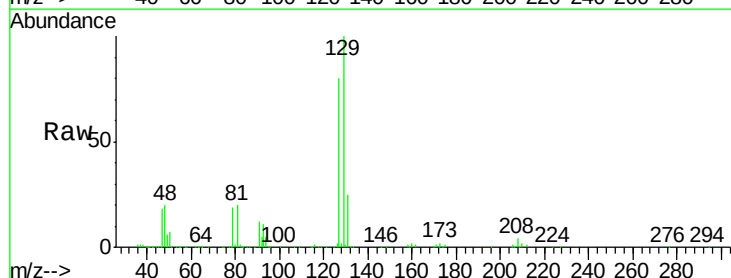
Manual Integrations
 APPROVED

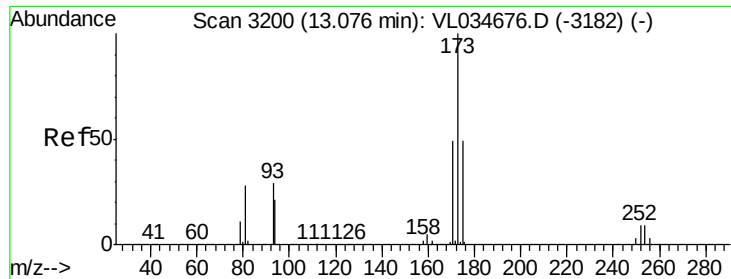
MMDadoda
 2/27/2020 5:19:44 PM



#48
 Dibromochloromethane
 Concen: 10.505 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1308872		
127	79.8	39.3	117.8		





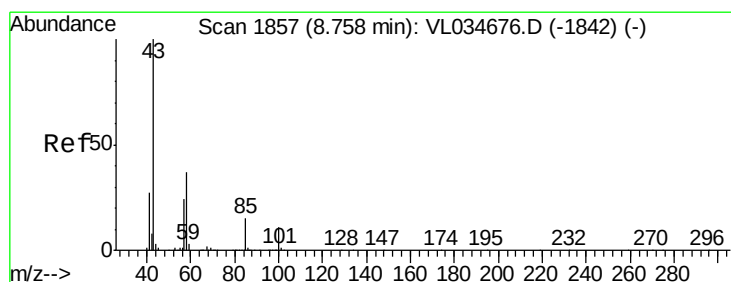
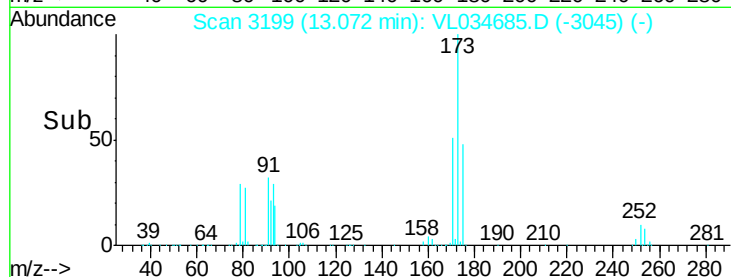
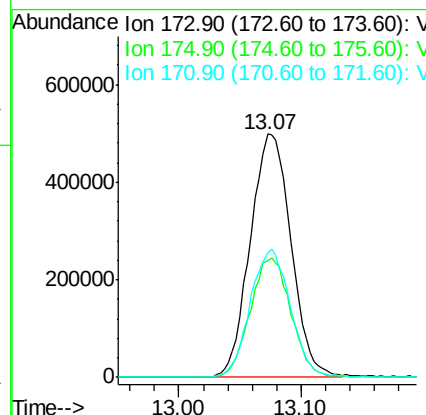
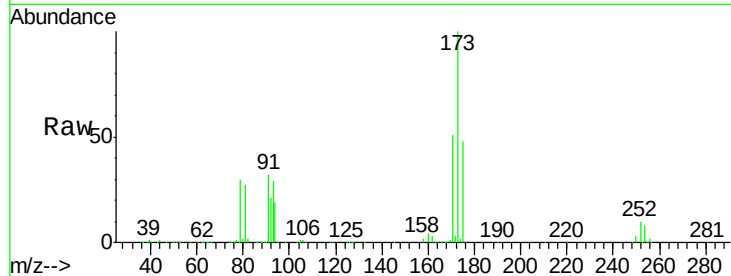
#49
Bromoform
Concen: 10.666 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion:173 Resp: 1152180
Ion Ratio Lower Upper
173 100
175 49.0 38.6 58.0
171 52.5 41.5 62.3

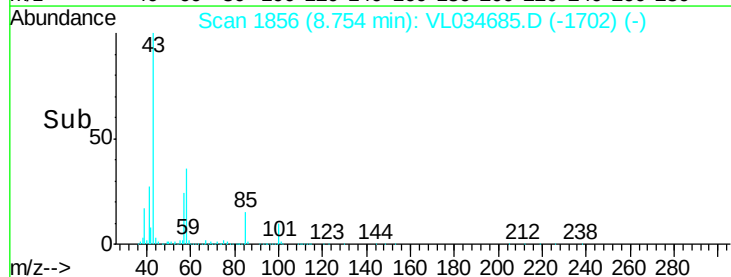
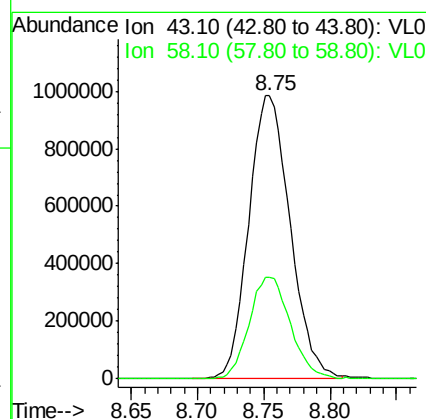
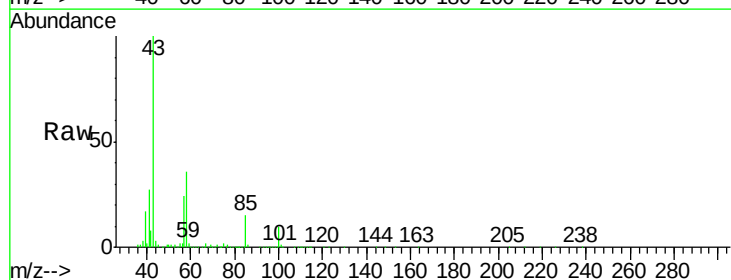
Manual Integrations
APPROVED

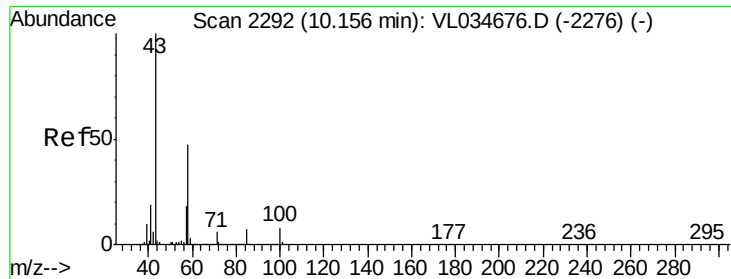
MMDadoda
2/27/2020 5:19:44 PM



#50
4-Methyl-2-Pentanone
Concen: 10.577 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion: 43 Resp: 2143306
Ion Ratio Lower Upper
43 100
58 35.9 29.0 43.6





#51

2-Hexanone

Concen: 11.276 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 43 Resp: 1798127

Ion Ratio Lower Upper

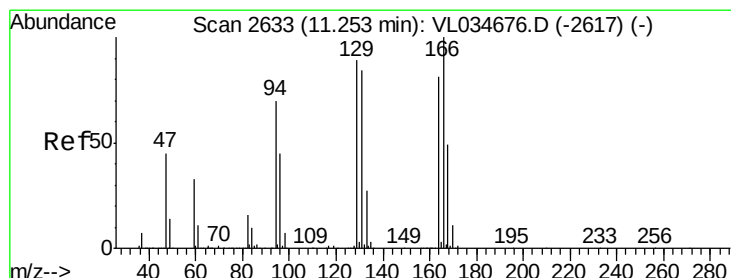
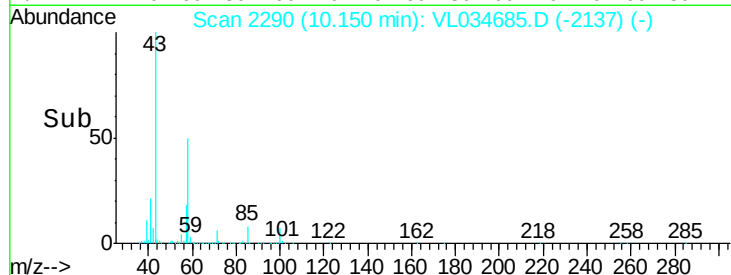
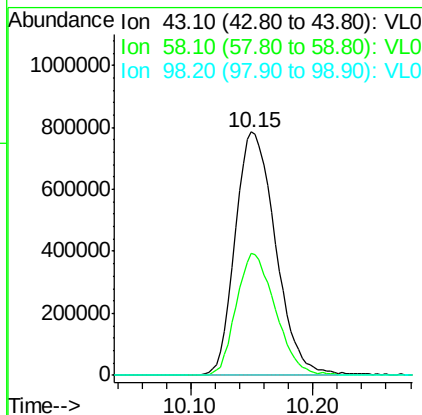
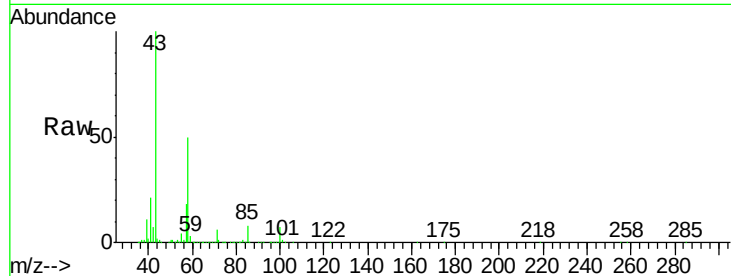
43 100

58 48.7 39.4 59.0

98 0.3 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



#52

Tetrachloroethene

Concen: 9.198 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion: 164 Resp: 661896

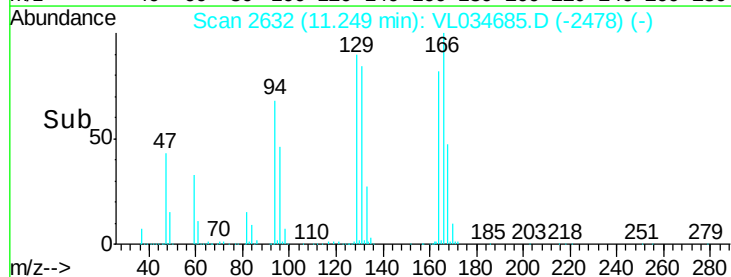
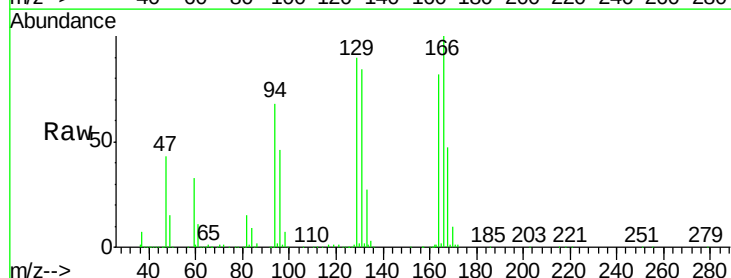
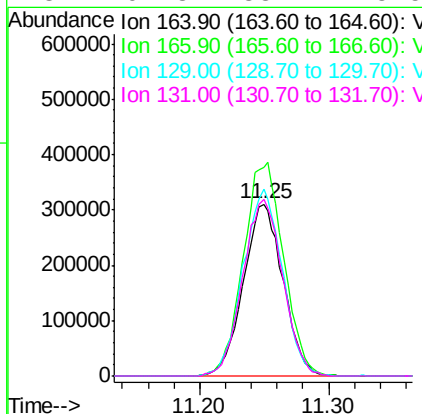
Ion Ratio Lower Upper

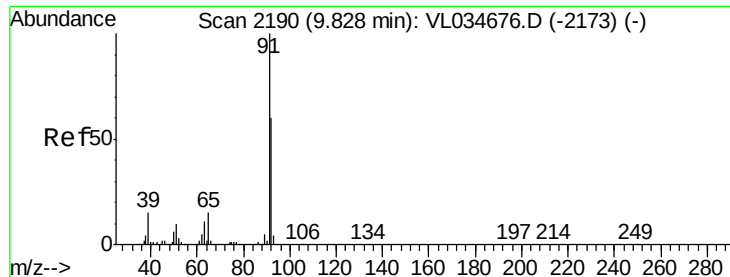
164 100

166 121.8 99.2 148.8

129 109.1 88.0 132.0

131 102.8 83.7 125.5





#53

Toluene

Concen: 10.558 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 91 Resp: 2204400

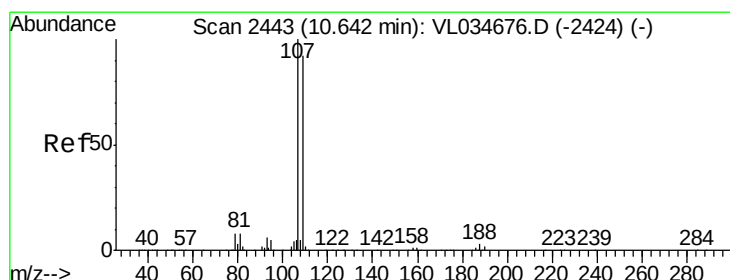
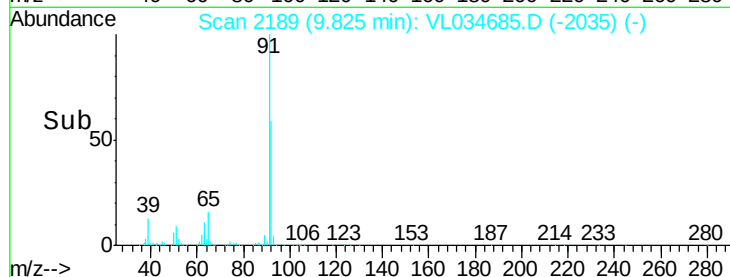
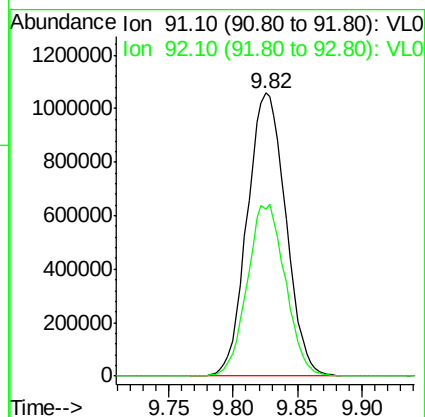
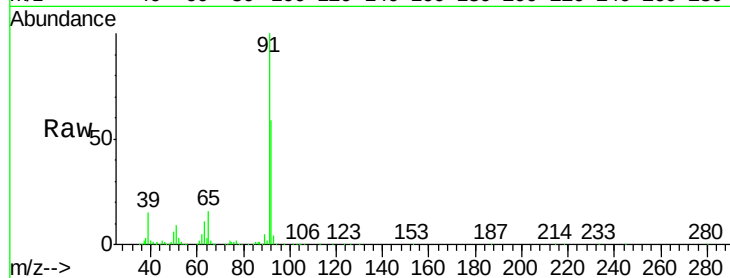
Ion Ratio Lower Upper

91 100

92 59.9 48.5 72.7

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



#54

1,2-Dibromoethane

Concen: 10.111 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL034685.D

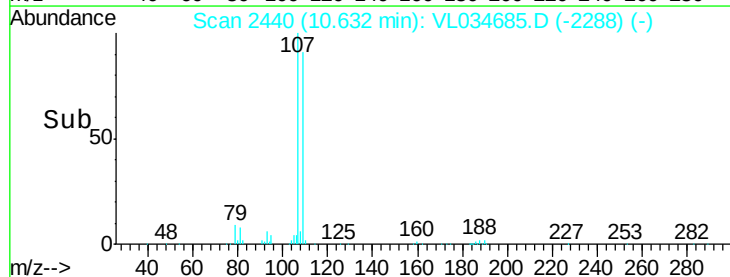
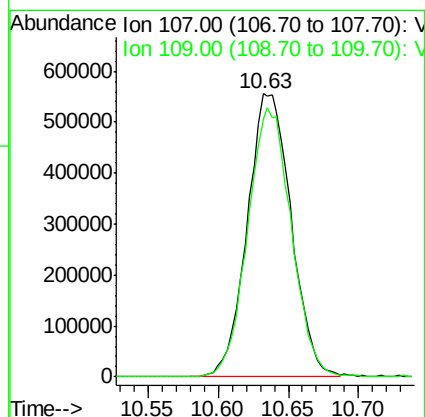
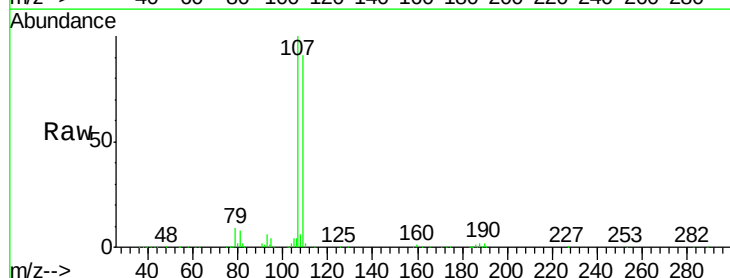
Acq: 26 Feb 2020 8:55

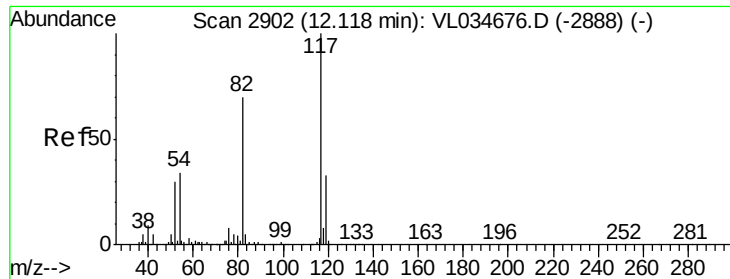
Tgt Ion: 107 Resp: 1208654

Ion Ratio Lower Upper

107 100

109 91.2 73.9 110.9





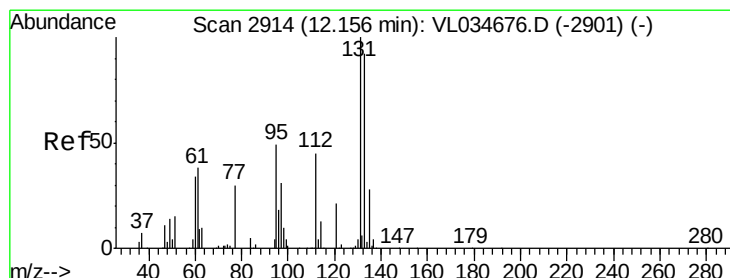
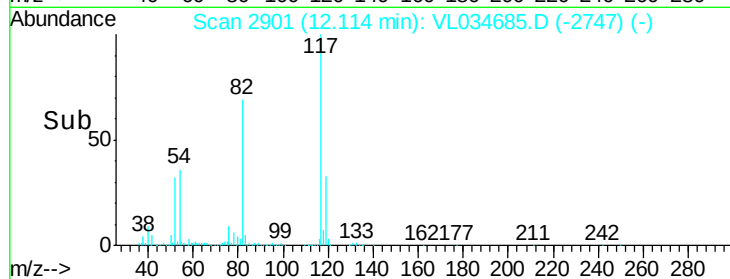
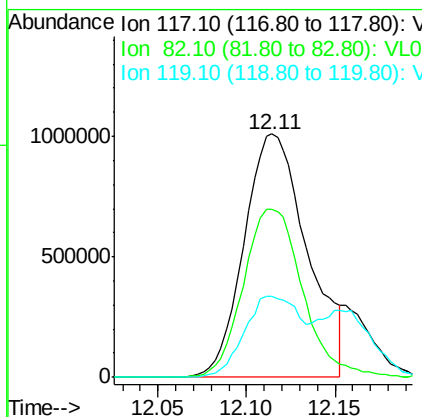
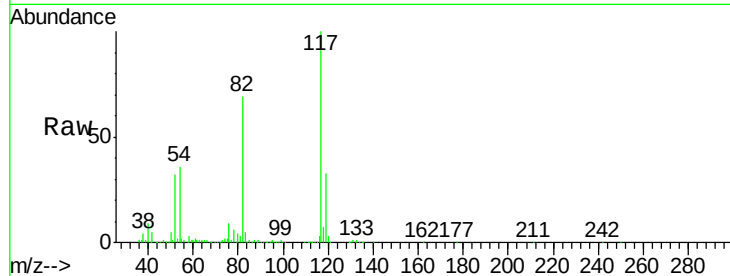
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.1	54.1	81.1
119	53.5	27.6	41.4#

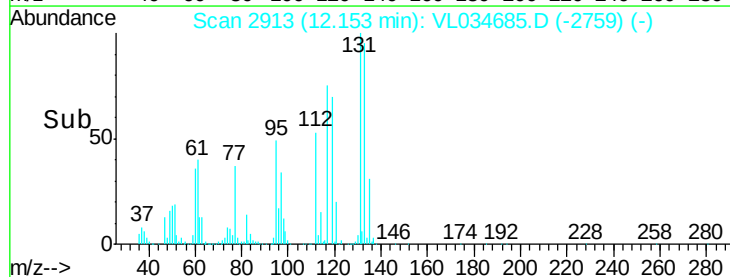
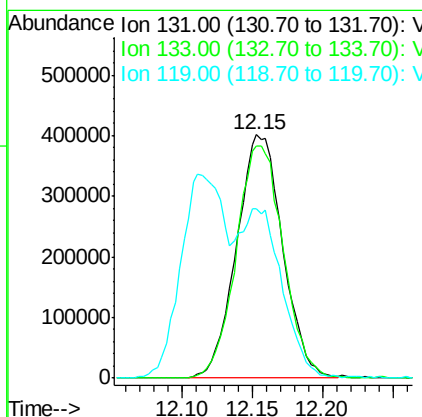
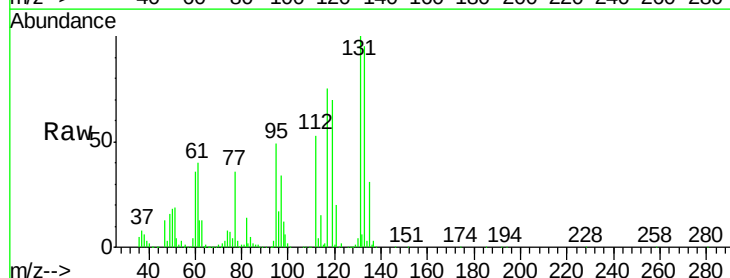
Manual Integrations
APPROVED

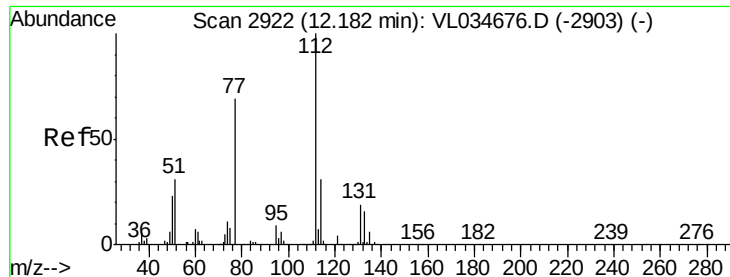
MMDadoda
2/27/2020 5:19:44 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.510 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.3	76.6	114.8
119	147.8	51.3	76.9#





#57

Chlorobenzene

Concen: 8.770 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

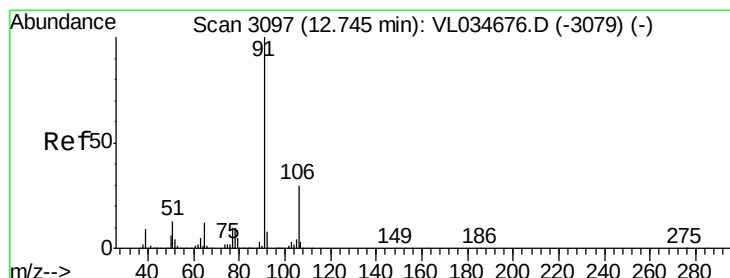
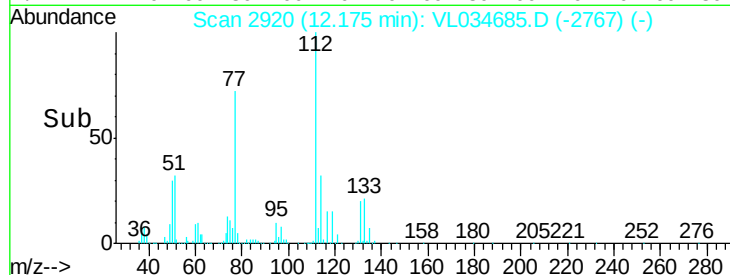
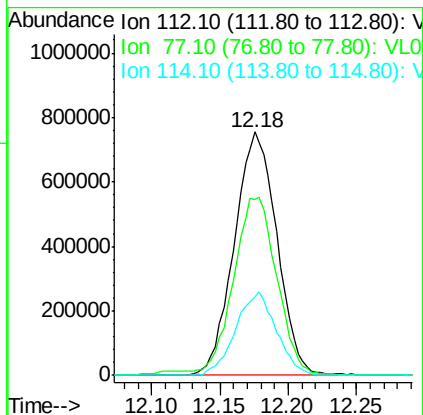
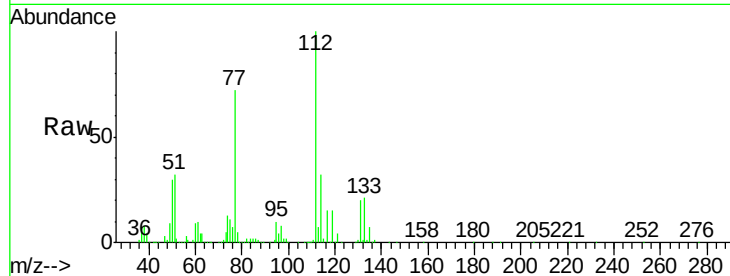
ClientSampleId :

VL0226ABS01

Tot Ion:	112	Resp:	1630322
Ion	Ratio	Lower	Upper
112	100		
77	72.1	56.5	84.7
114	32.0	28.1	34.3

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



#58

Ethyl Benzene

Concen: 9.650 ppbv

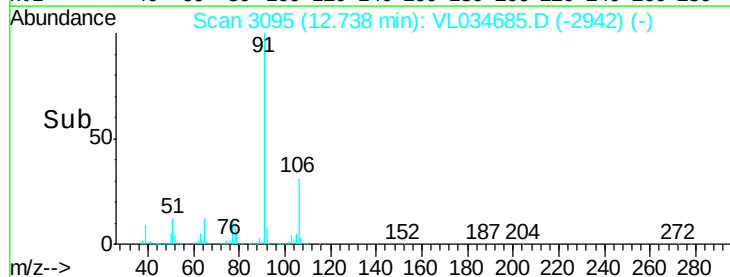
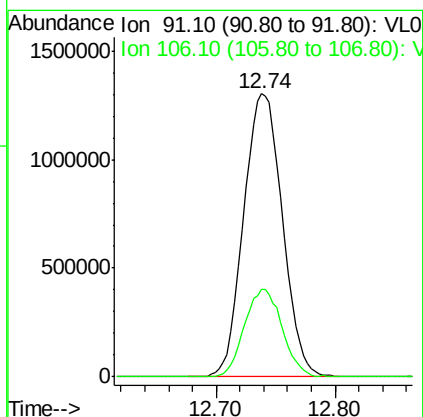
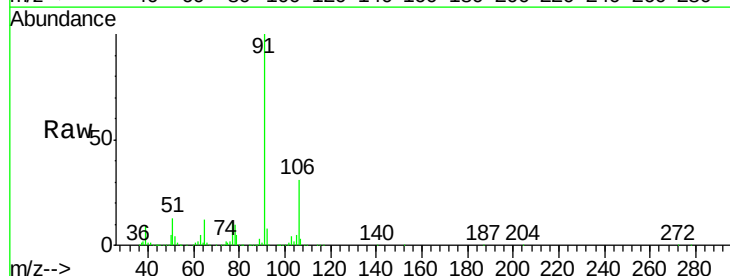
RT: 12.74 min Scan# 3095

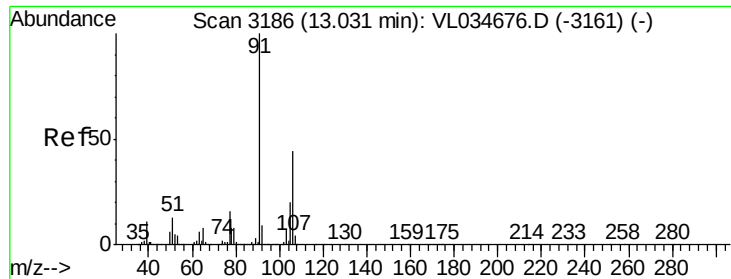
Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion:	91	Resp:	2936486
Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.0	36.0





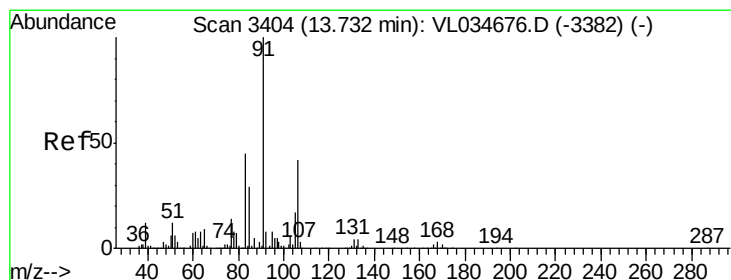
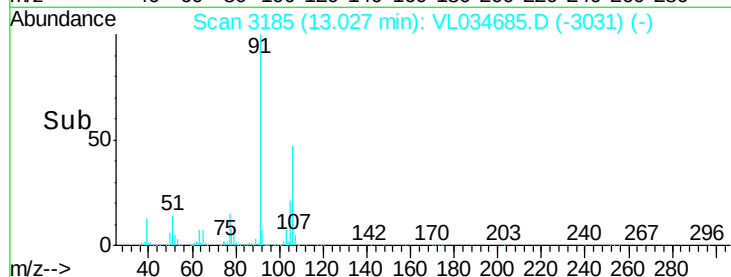
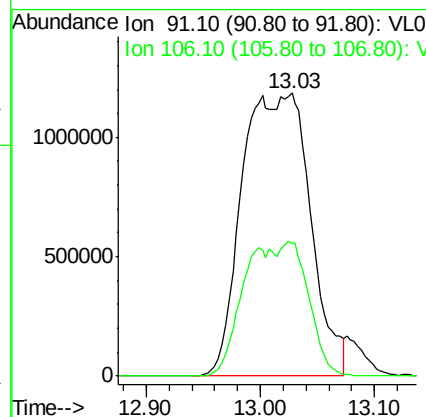
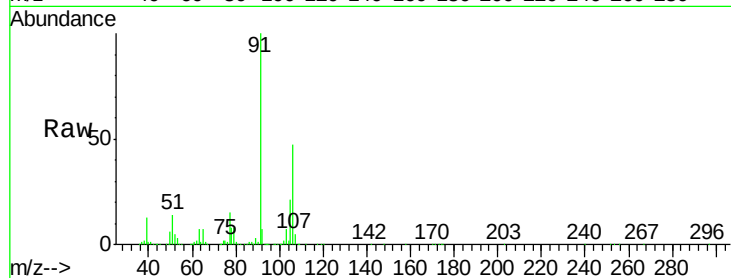
#59
m/p-Xylene
Concen: 18.481 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion: 91 Resp: 4904856
Ion Ratio Lower Upper
91 100
106 44.5 35.6 53.4

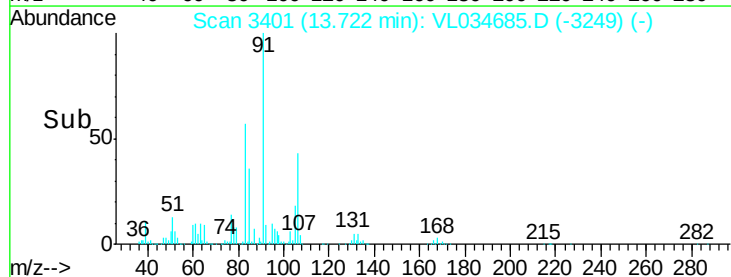
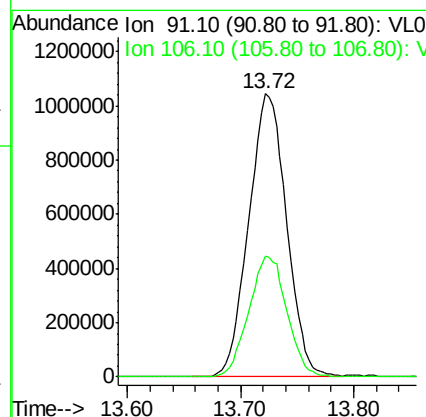
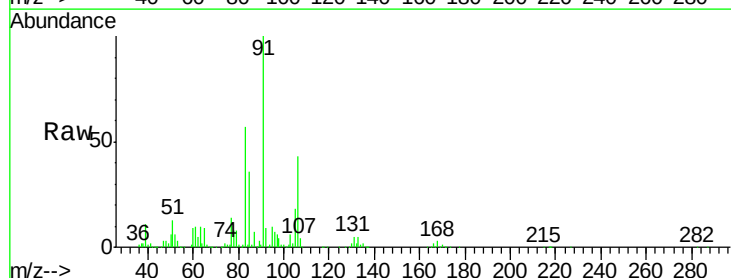
Manual Integrations
APPROVED

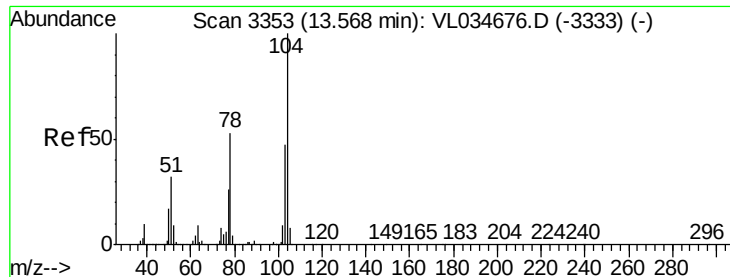
MMDadoda
2/27/2020 5:19:44 PM



#60
o-Xylene
Concen: 9.211 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion: 91 Resp: 2425777
Ion Ratio Lower Upper
91 100
106 43.0 21.9 65.5





#61

Stvrene

Concen: 10.233 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampled :

VL0226ABS01

Tot Ion:104 Resp: 1731107

Ion Ratio Lower Upper

104 100

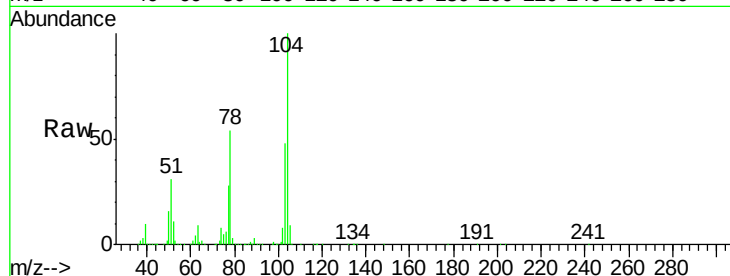
78 55.5 44.2 66.4

103 48.3 37.4 56.0

Manual Integrations
APPROVED

MMDadoda

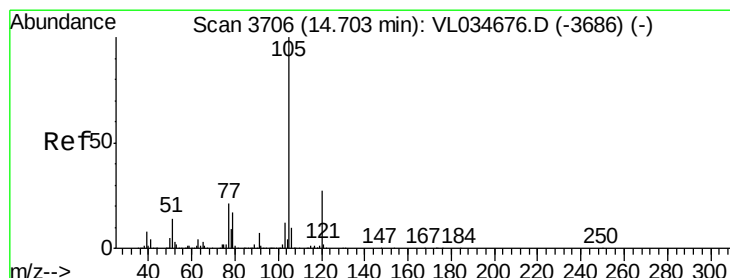
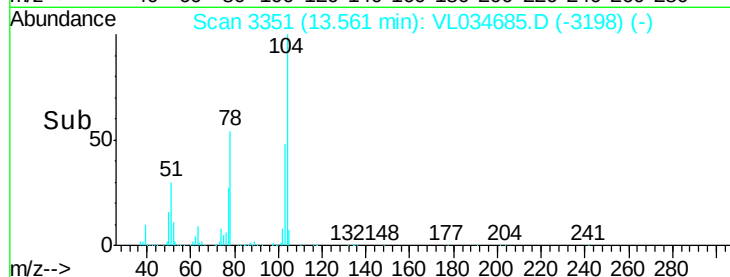
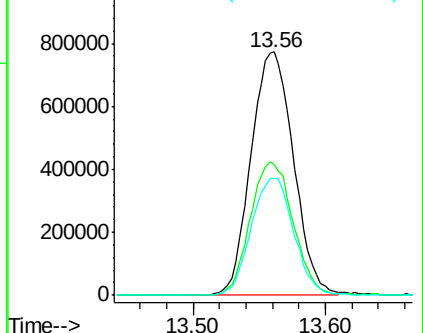
2/27/2020 5:19:44 PM



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: 8.873 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.00 min

Lab File: VL034685.D

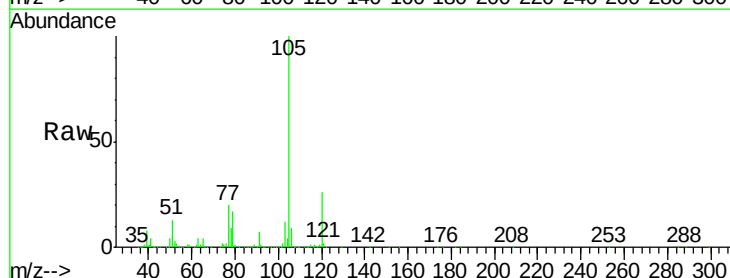
Acq: 26 Feb 2020 8:55

Tgt Ion:105 Resp: 3408851

Ion Ratio Lower Upper

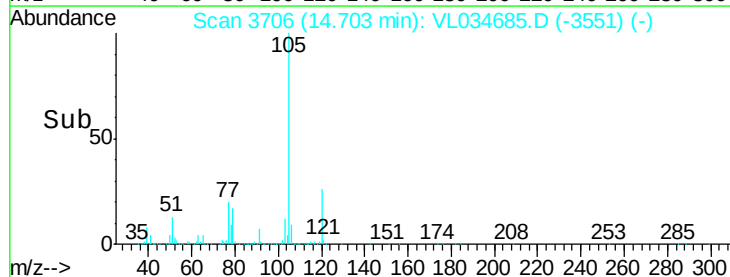
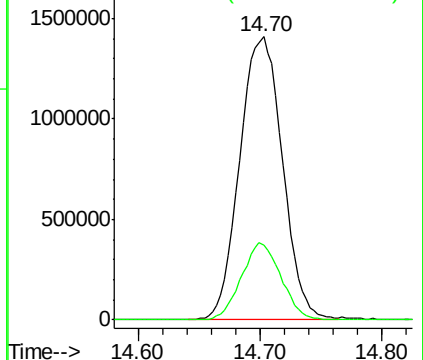
105 100

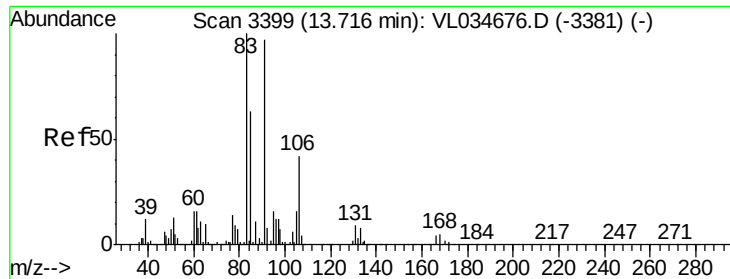
120 25.4 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





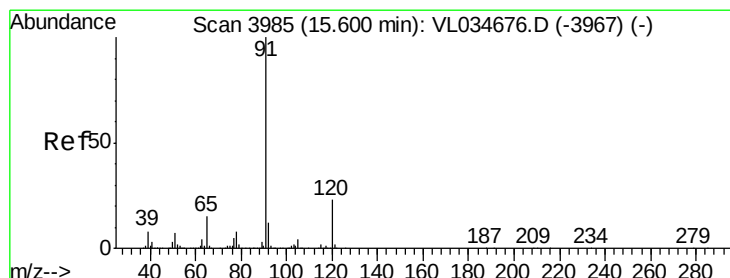
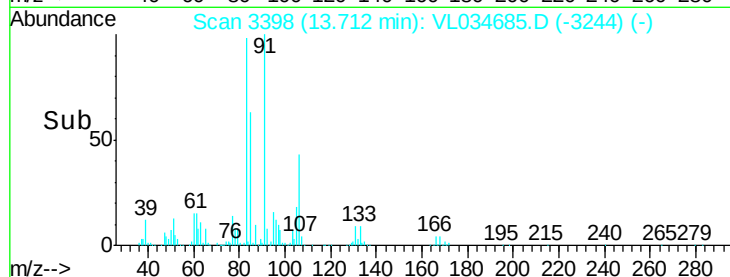
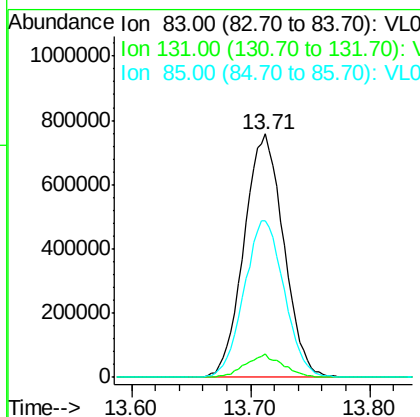
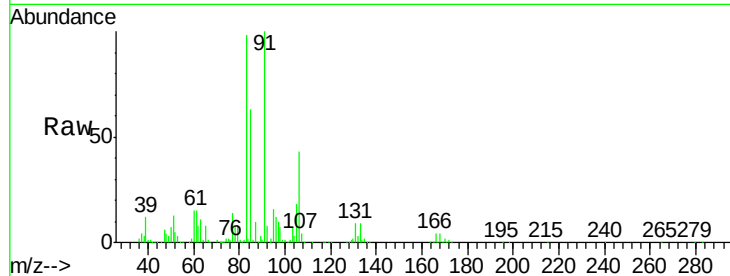
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.516 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.4	13.2
85	65.3	32.5	97.5

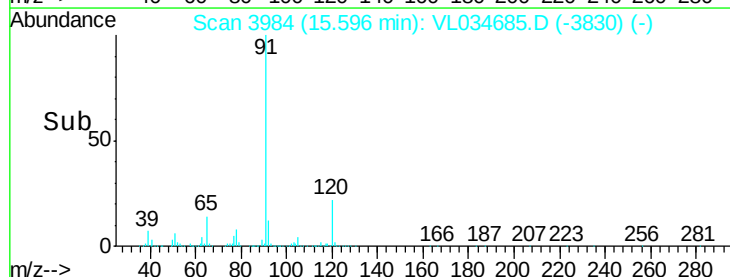
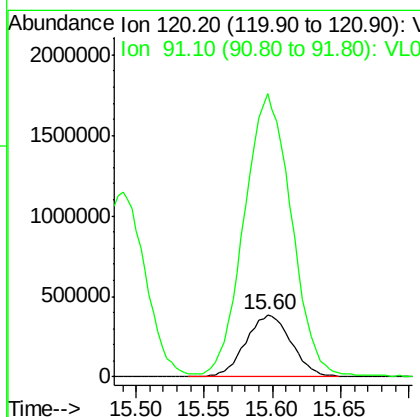
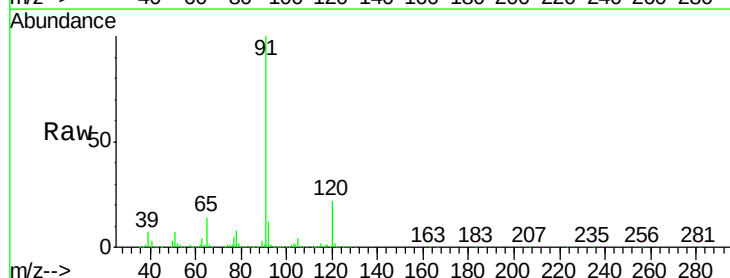
Manual Integrations
 APPROVED

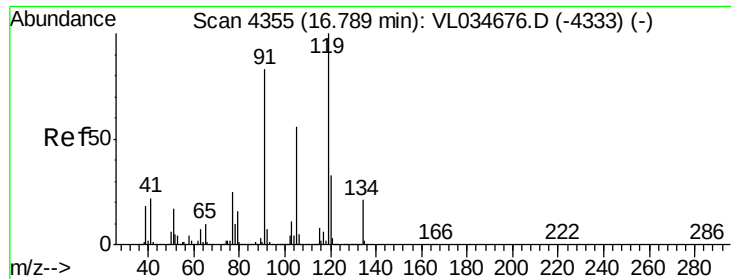
MMDadoda
 2/27/2020 5:19:44 PM



#64
 n-propylbenzene
 Concen: 9.030 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
120	100		
91	475.7	369.8	554.8





#65

tert-Butylbenzene

Concen: 8.736 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion:119 Resp: 2897969

Ion Ratio Lower Upper

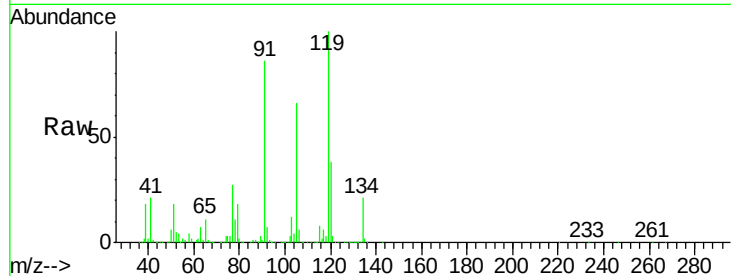
119 100

91 88.2 69.1 103.7

134 19.9 15.8 23.8

Manual Integrations
APPROVED

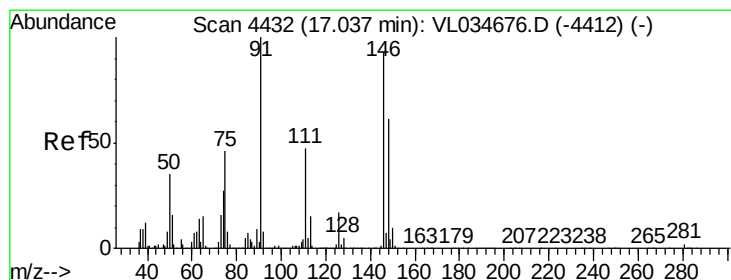
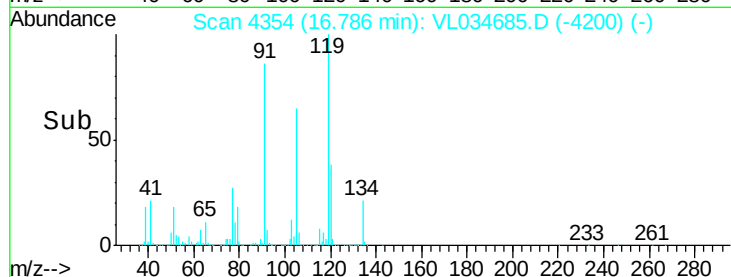
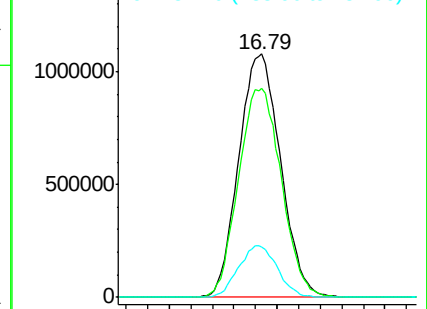
MMDadoda
2/27/2020 5:19:44 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.083 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

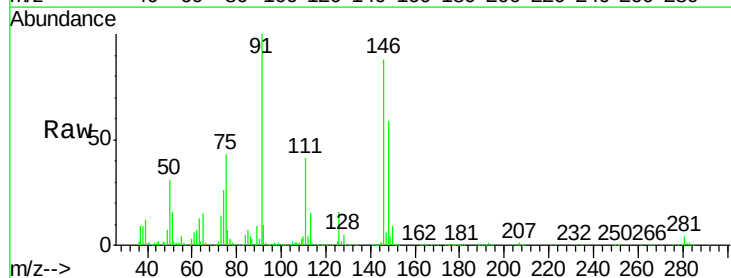
Tgt Ion: 91 Resp: 1371479

Ion Ratio Lower Upper

91 100

126 16.5 13.5 20.3

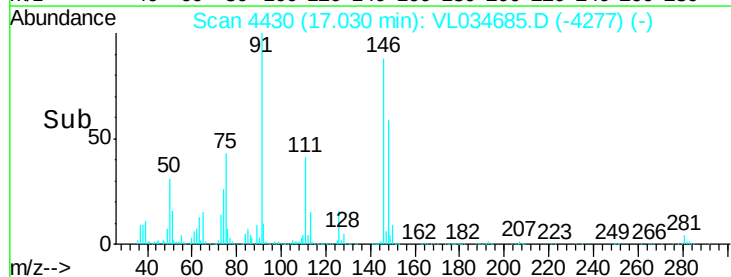
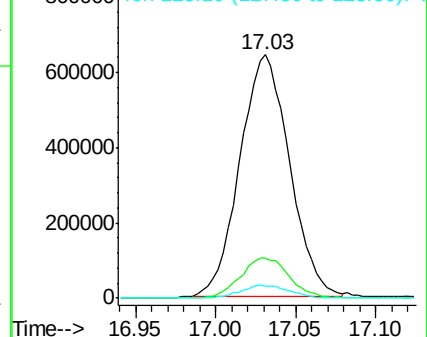
128 5.3 4.2 6.4

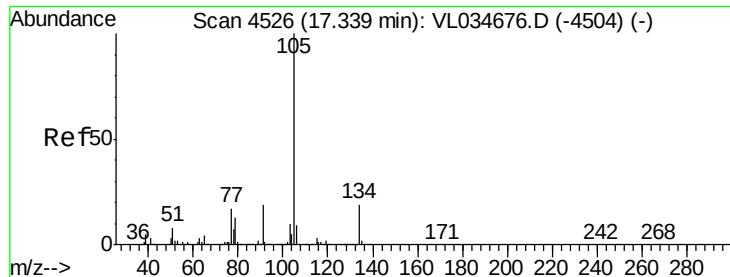


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.754 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 105 Resp: 4178658

Ion Ratio Lower Upper

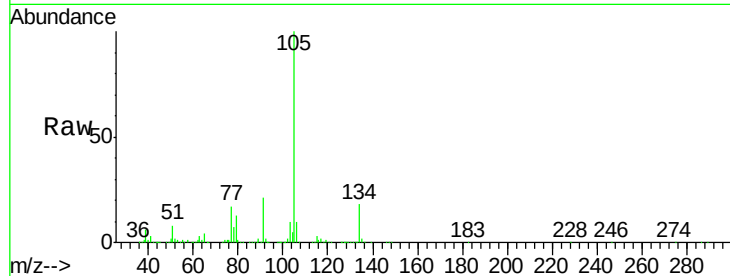
105 100

134 18.3 14.8 22.2

Manual Integrations
APPROVED

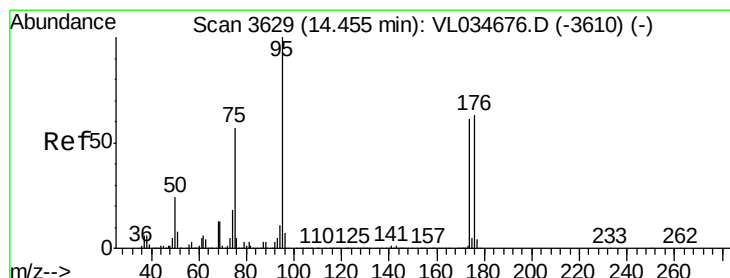
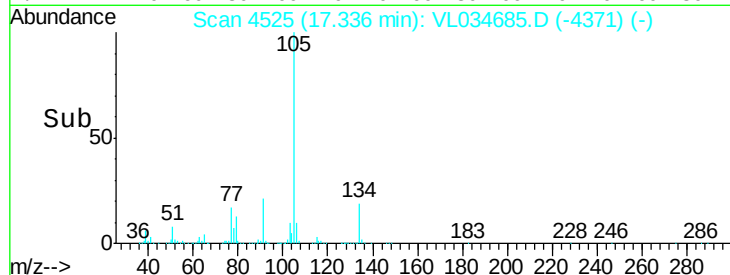
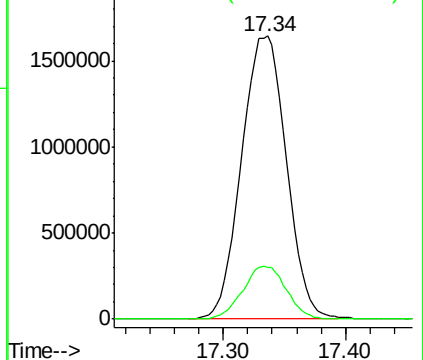
MMDadoda

2/27/2020 5:19:44 PM



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: 9.467 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.01 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

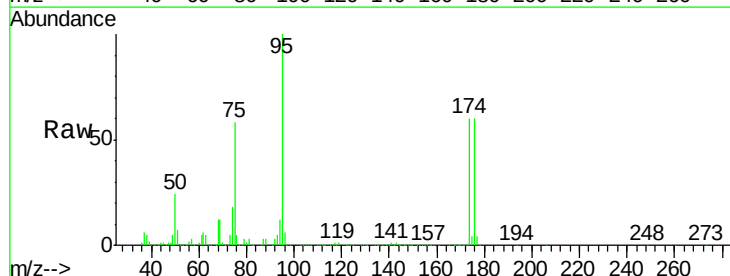
Tgt Ion: 95 Resp: 1952362

Ion Ratio Lower Upper

95 100

174 62.6 50.7 76.1

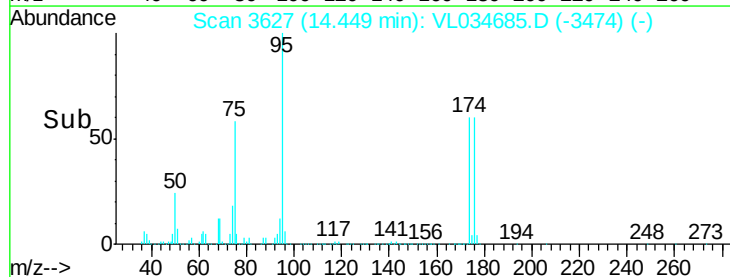
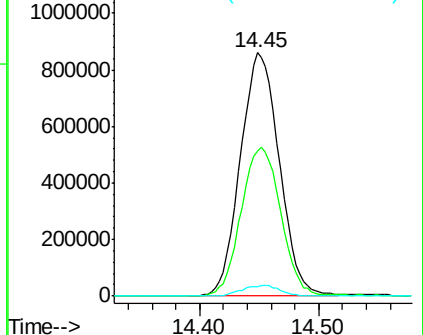
175 4.6 3.9 5.9

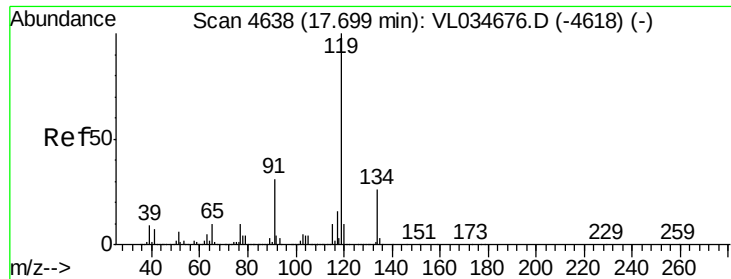


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





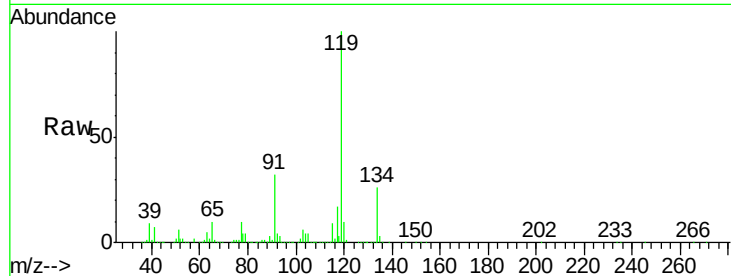
#69
p-Isopropyltoluene
Concen: 8.827 ppbv
RT: 17.69 min Scan# 4636
Delta R.T. -0.01 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

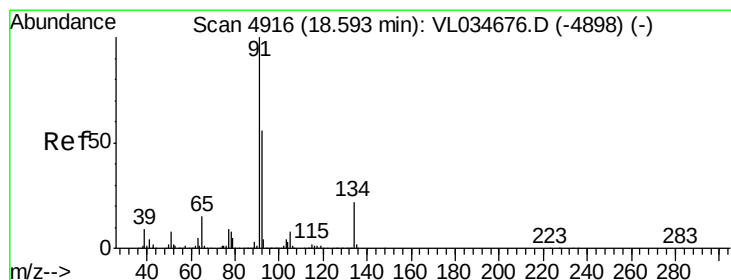
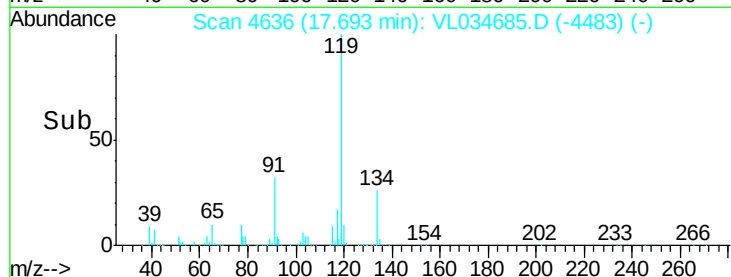
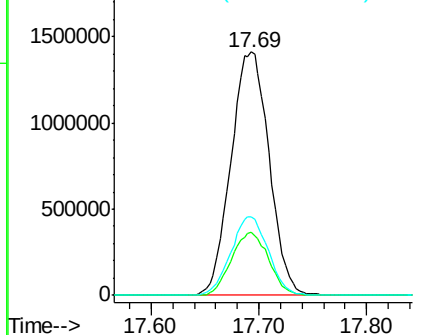
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.6	31.0
91	31.8	25.3	37.9

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM

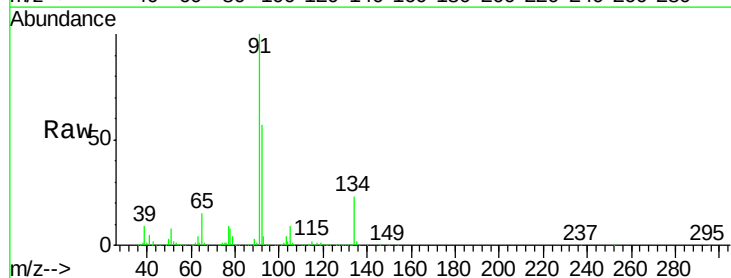


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

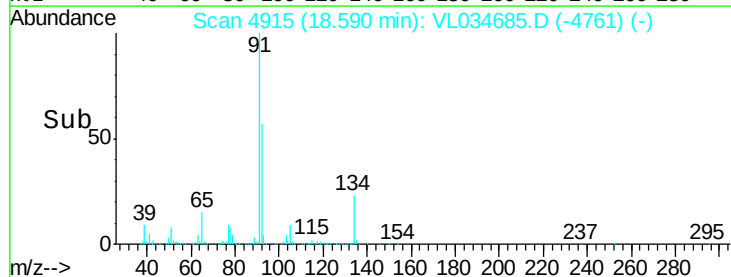
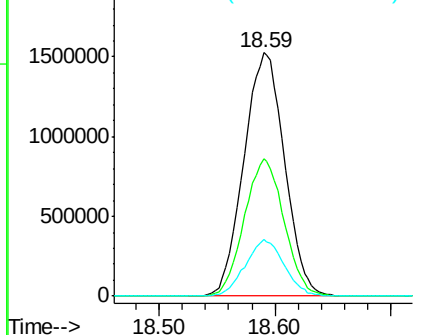


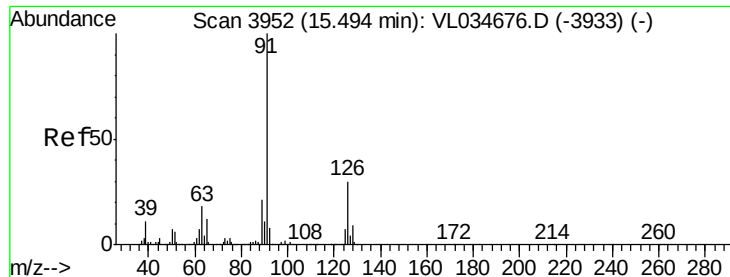
#70
n-Butylbenzene
Concen: 8.699 ppbv
RT: 18.59 min Scan# 4915
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.8	65.6
134	22.3	17.6	26.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.003 ppbv

RT: 15.49 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion: 91 Resp: 2678871

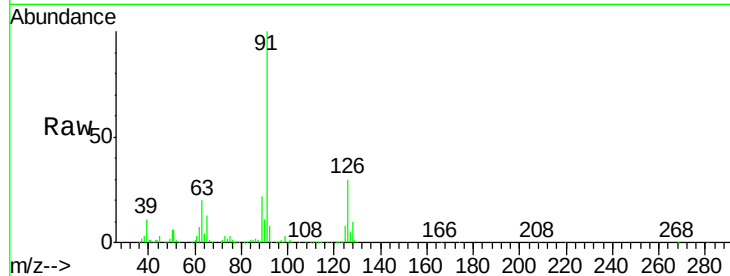
Ion Ratio Lower Upper

91 100

126 29.3 11.8 47.2

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:44 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

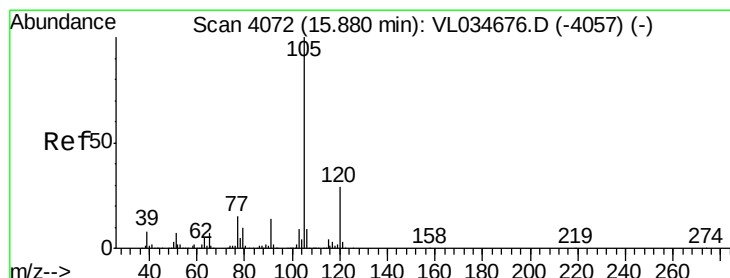
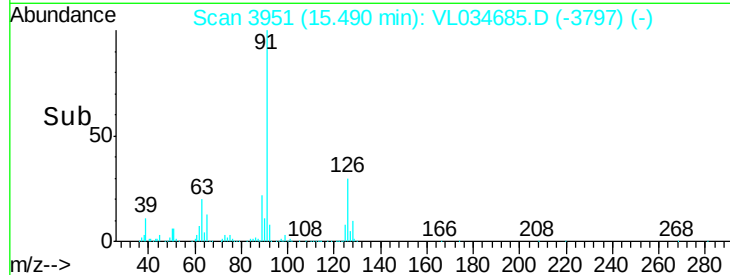
1000000

500000

0

15.40 15.50

Time-->



#72

4-Ethyltoluene

Concen: 9.464 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion:105 Resp: 2774124

Ion Ratio Lower Upper

105 100

120 29.5 23.7 35.5

91 14.0 10.9 16.3

77 15.3 12.2 18.2

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

1500000

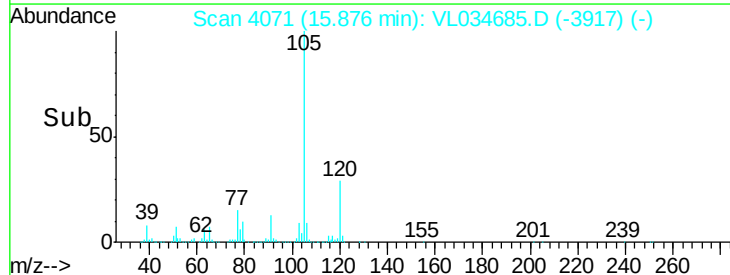
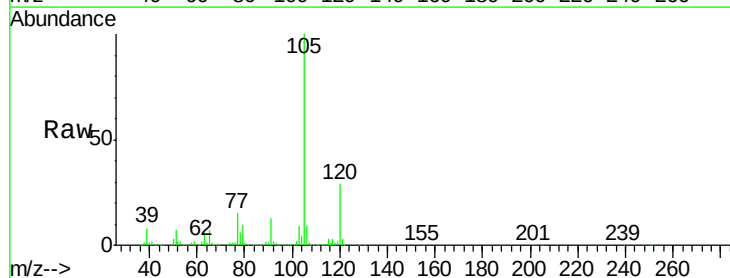
1000000

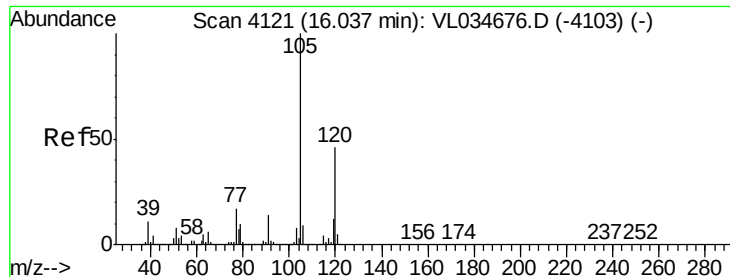
500000

0

15.80 15.85 15.90 15.95

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 9.360 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Instrument :

MSVOA_L

ClientSampleId :

VL0226ABS01

Tot Ion:105 Resp: 2639411

Ion Ratio Lower Upper

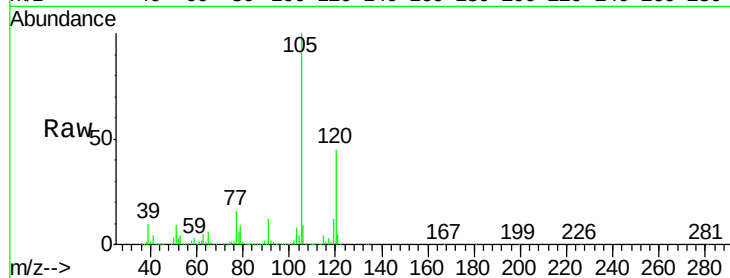
105 100

120 45.3 37.1 55.7

Manual Integrations
APPROVED

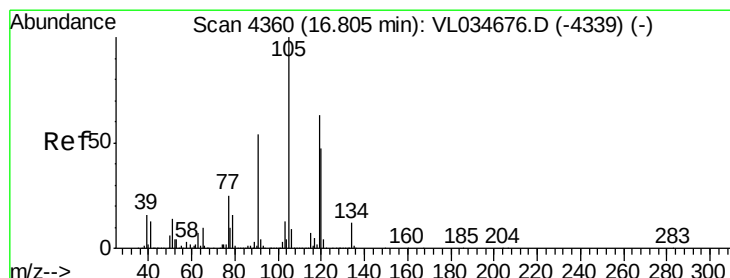
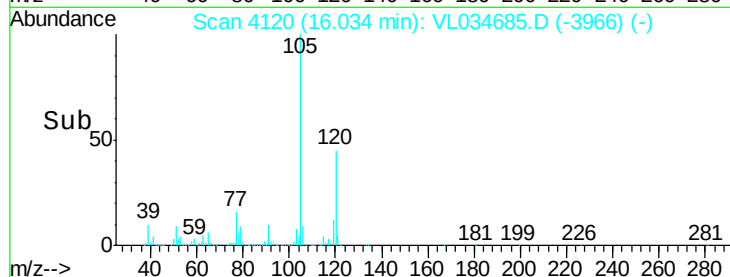
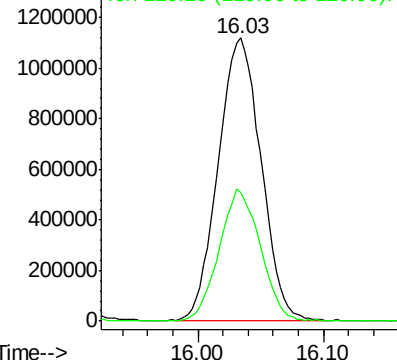
MMDadoda

2/27/2020 5:19:44 PM



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: 8.773 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. -0.00 min

Lab File: VL034685.D

Acq: 26 Feb 2020 8:55

Tgt Ion:105 Resp: 2731893

Ion Ratio Lower Upper

105 100

120 44.3 37.9 56.9

91 40.3 43.9 65.9#

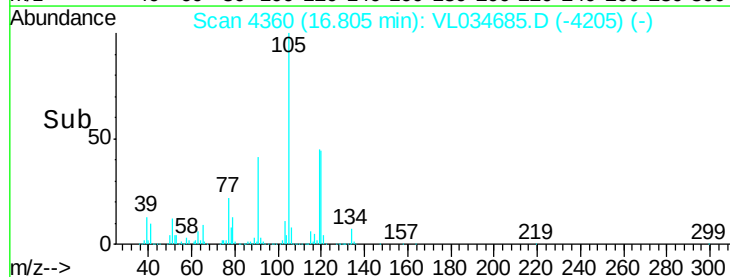
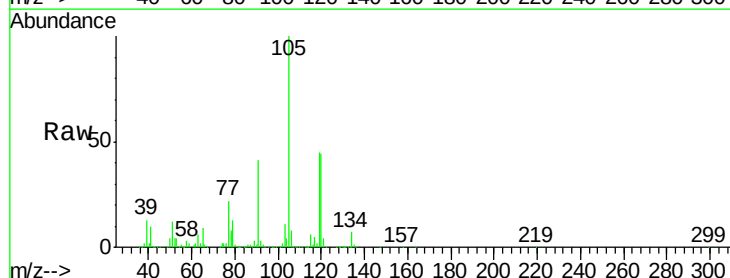
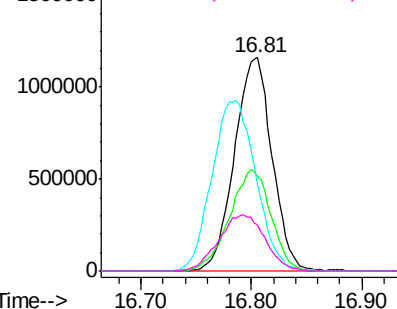
77 21.5 20.3 30.5

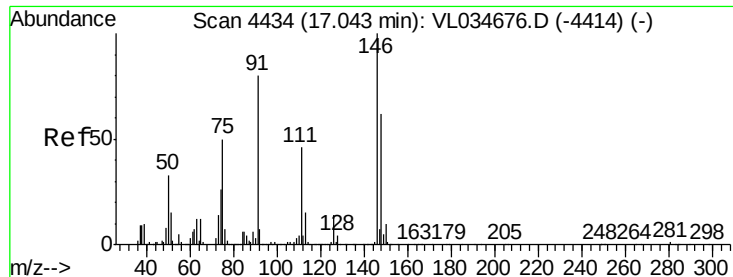
Abundance Ion 105.10 (104.80 to 105.80): V

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





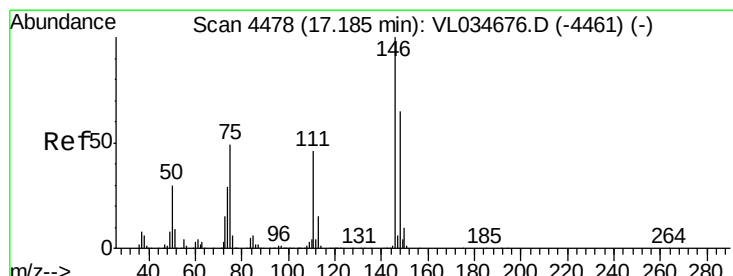
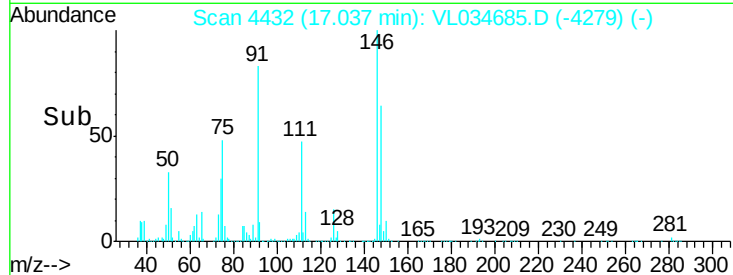
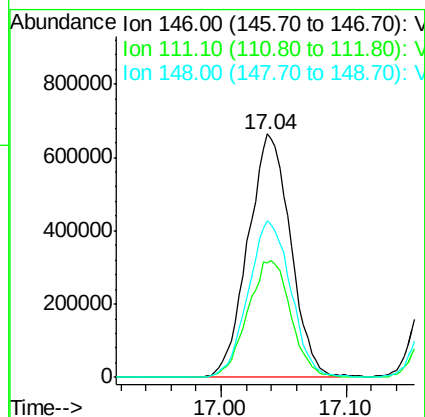
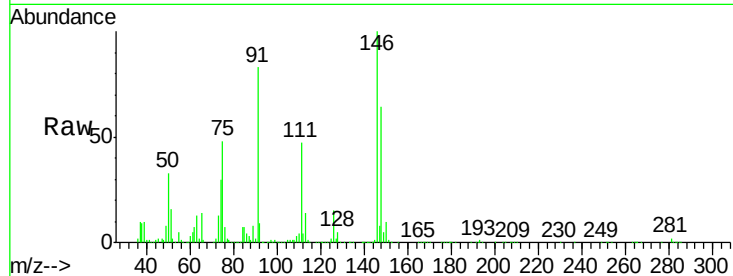
#75
 1,3-Dichlorobenzene
 Concen: 8.699 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.01 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.4	73.2
148	64.6	32.5	97.4

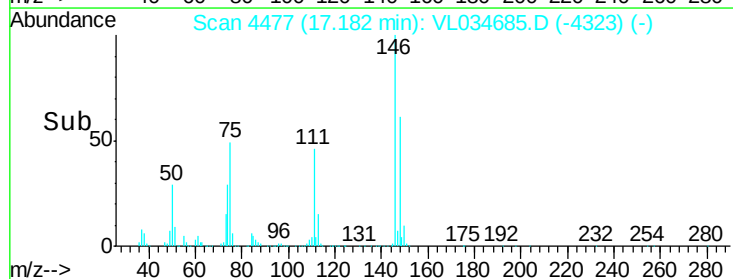
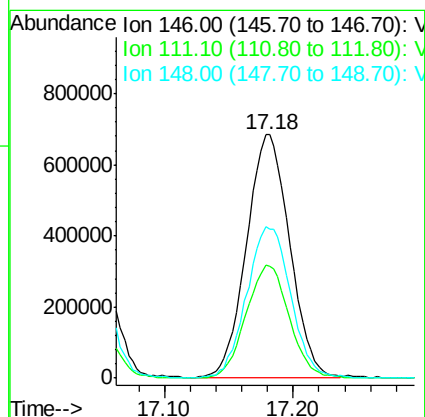
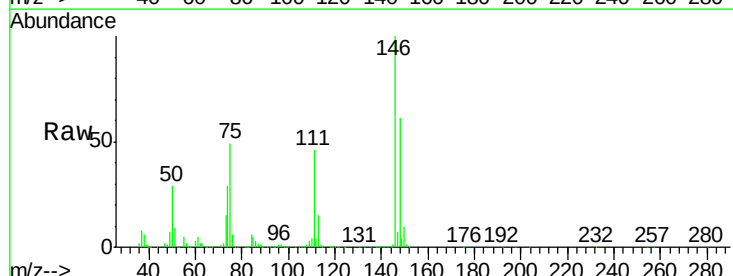
Manual Integrations
 APPROVED

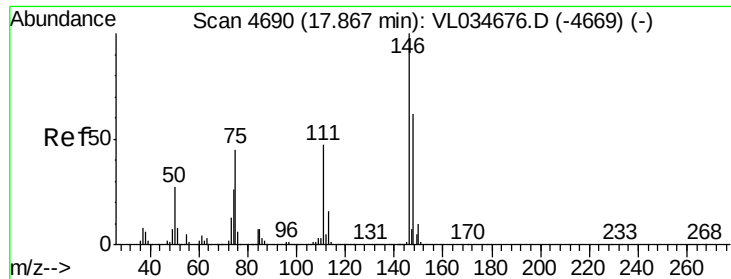
MMDadoda
 2/27/2020 5:19:44 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.818 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.4	70.0
148	64.2	31.9	95.5





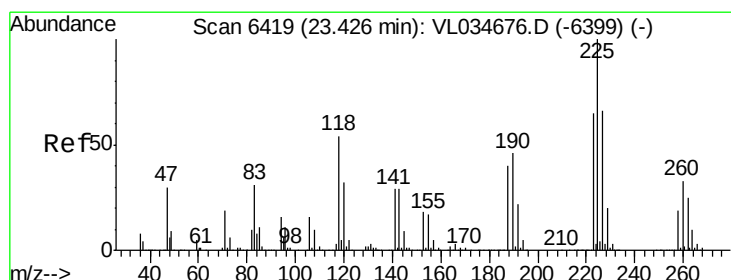
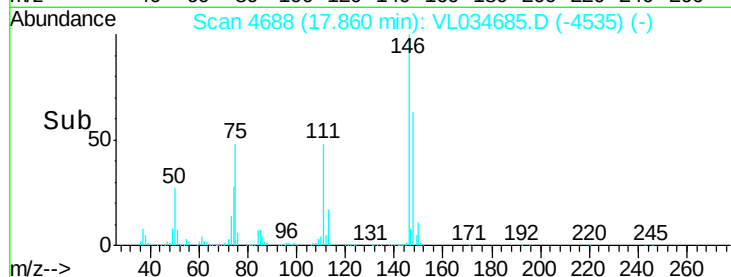
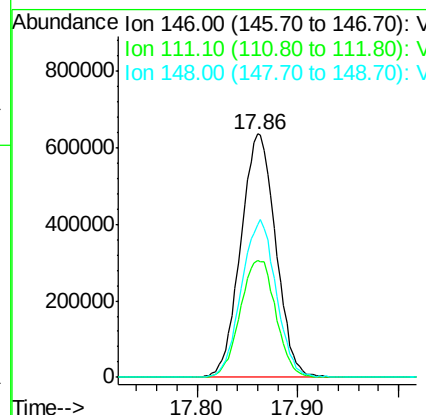
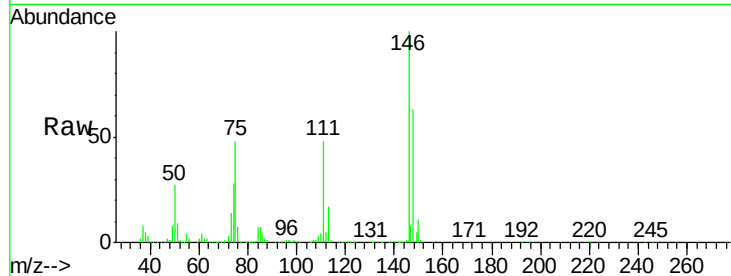
#77
 1,2-Dichlorobenzene
 Concen: 8.784 ppbv
 RT: 17.86 min Scan# 4688
 Delta R.T. -0.01 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion:146 Resp: 1526566
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.9 74.7
 148 64.4 32.0 96.0

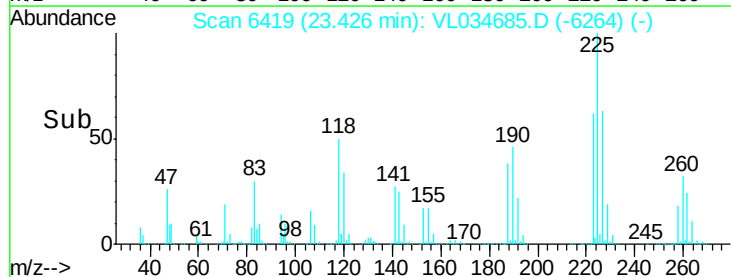
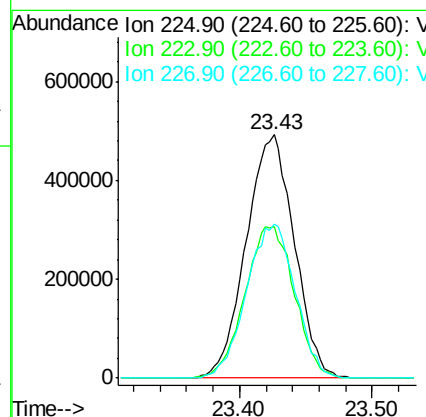
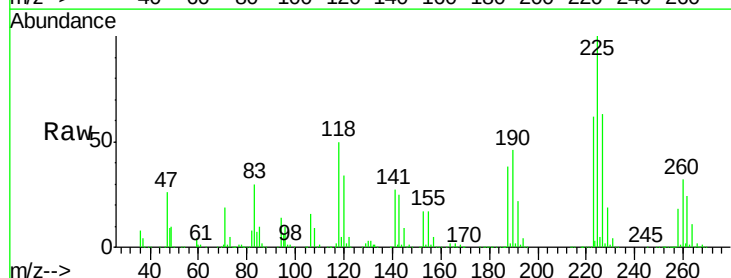
Manual Integrations
 APPROVED

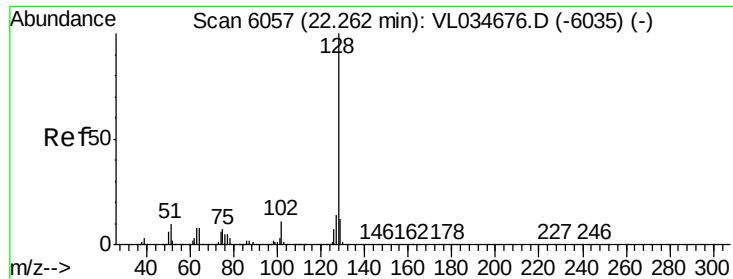
MMDadoda
 2/27/2020 5:19:44 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.202 ppbv
 RT: 23.43 min Scan# 6419
 Delta R.T. -0.00 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Tgt Ion:225 Resp: 1241154
 Ion Ratio Lower Upper
 225 100
 223 64.0 51.3 76.9
 227 64.4 51.3 76.9





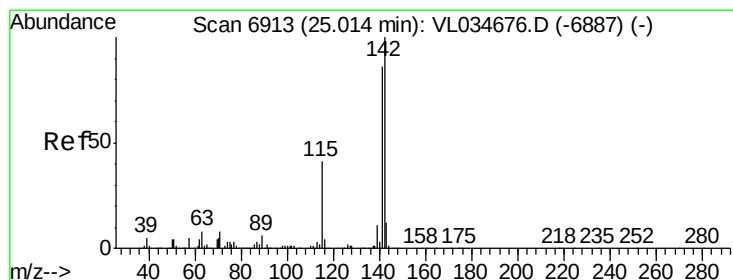
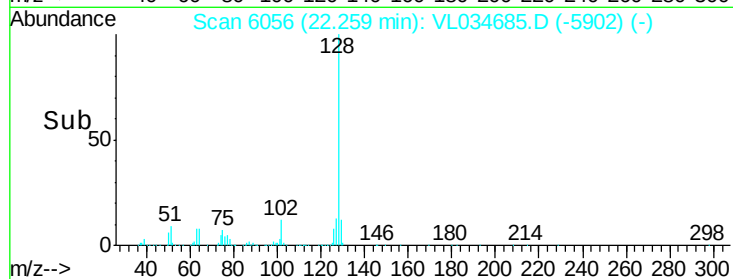
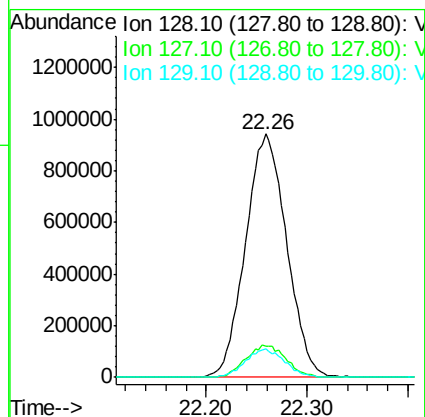
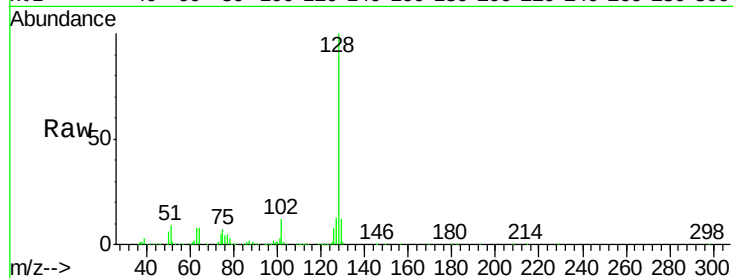
#79
Naphthalene
Concen: 9.714 ppbv
RT: 22.26 min Scan# 6056
Delta R.T. -0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Tot Ion:128 Resp: 2662244
Ion Ratio Lower Upper
128 100
127 12.6 11.0 16.6
129 11.7 9.4 14.2

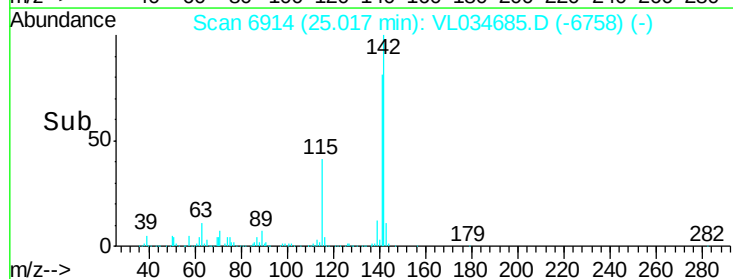
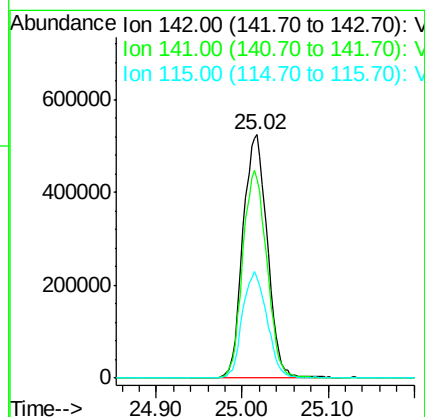
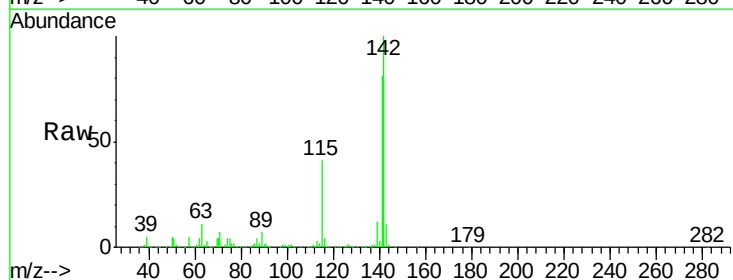
Manual Integrations
APPROVED

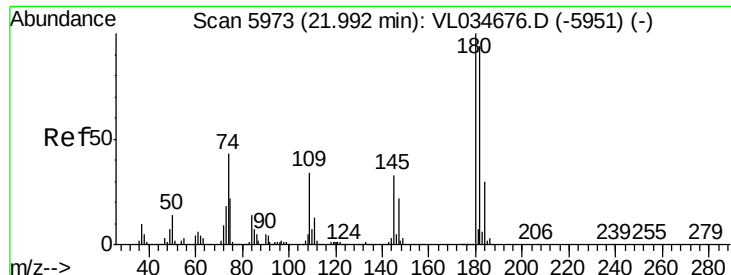
MMDadoda
2/27/2020 5:19:44 PM



#80
Naphthalene, 2-methyl-
Concen: 12.218 ppbv
RT: 25.02 min Scan# 6914
Delta R.T. 0.00 min
Lab File: VL034685.D
Acq: 26 Feb 2020 8:55

Tgt Ion:142 Resp: 1032784
Ion Ratio Lower Upper
142 100
141 84.3 66.5 99.7
115 44.0 30.6 46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.607 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL034685.D
 Acq: 26 Feb 2020 8:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Tot Ion:180 Resp: 1407820
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.5 114.7
 184 30.8 25.2 37.8

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:44 PM

