

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034683.D
 Acq On : 26 Feb 2020 6:57
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:40 PM

Quant Time: Feb 26 07:34:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 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	1135235	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2375956	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2493760m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1983329	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1349336	7.535	ppbv 92
3) Chlorodifluoromethane	2.95	51	1104710	9.017	ppbv 98
4) Chloromethane	3.10	50	645245	9.409	ppbv 99
5) Vinyl Chloride	3.22	62	624472	9.282	ppbv 98
6) Bromomethane	3.44	94	356963	9.056	ppbv 92
7) Chloroethane	3.52	64	225988	9.048	ppbv 93
8) Dichlorotetrafluoroethane	3.15	85	1368379	8.638	ppbv 100
9) Propene	2.97	41	508982	9.939	ppbv 99
10) Heptane	8.13	43	1322012	10.029	ppbv 100
11) Trichlorofluoromethane	3.92	101	1368424	8.724	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	962782	8.708	ppbv 99
13) Ethanol	3.57	45	137621	8.507	ppbv 96
14) Bromoethene	3.71	108	431280	9.349	ppbv 99
15) Acetone	3.82	43	1082411	8.367	ppbv 99
16) 1,3-Butadiene	3.29	39	571942	9.551	ppbv 100
17) tert-Butyl alcohol	4.27	59	986344	9.950	ppbv 100
18) 1,1-Dichloroethene	4.27	96	449208	9.050	ppbv 95
19) Isopropyl Alcohol	3.94	45	821980	10.668	ppbv 100
20) Methylene Chloride	4.32	84	392322	8.155	ppbv 98
21) Allyl Chloride	4.39	41	808228	9.443	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	450864	9.315	ppbv 94
23) Vinyl Acetate	5.06	43	1857351	10.561	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1291247	9.194	ppbv 99
25) Ethyl Acetate	5.67	43	2171959	9.485	ppbv 100
26) Hexane	5.68	57	1009543	9.565	ppbv 98
27) Carbon Disulfide	4.53	76	1170570	9.770	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1441733	9.562	ppbv 98
29) Chloroform	5.75	83	1518785	9.032	ppbv 97
30) Cyclohexane	7.13	84	818985	10.012	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1042633	10.038	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	1425255	9.076	ppbv 99
34) 2-Butanone	5.23	43	1486064	9.937	ppbv 99
35) Carbon Tetrachloride	7.02	117	1486074	9.339	ppbv 98
36) Benzene	6.90	78	1991695	9.706	ppbv 98
37) 1,2-Dichloroethane	6.31	62	1216367	9.403	ppbv 99
38) Trichloroethene	7.85	130	720355	9.107	ppbv 96
39) 1,2-Dichloropropane	7.62	63	797744	9.771	ppbv 96
40) 1,4-Dioxane	7.84	88	299945	10.803	ppbv 95
41) Tetrahydrofuran	6.04	42	836404	10.596	ppbv 100
42) Bromodichloromethane	7.80	83	1656984	9.784	ppbv 98
43) Methyl Methacrylate	8.02	69	875920	10.148	ppbv 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034683.D
 Acq On : 26 Feb 2020 6:57
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

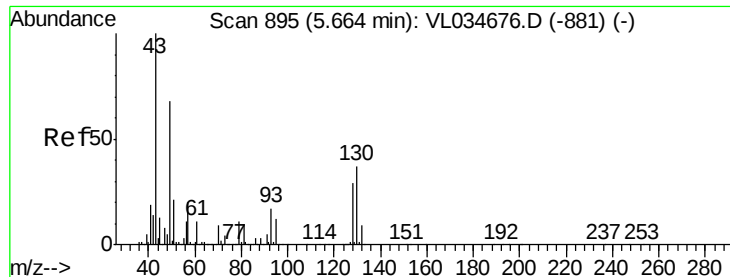
Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:40 PM

Quant Time: Feb 26 07:34:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 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	3408193	9.503	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1083881	11.508	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1262564	11.177	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	812672	9.703	ppbv	96
48) Dibromochloromethane	10.33	129	1336374	10.261	ppbv	100
49) Bromoform	13.07	173	1164614	10.313	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2199704	10.385	ppbv	100
51) 2-Hexanone	10.15	43	1841860	11.049	ppbv	100
52) Tetrachloroethene	11.25	164	679755	9.037	ppbv	99
53) Toluene	9.83	91	2269642	10.399	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1244163	9.957	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	933210	8.787	ppbv #	58
57) Chlorobenzene	12.18	112	1655794	8.983	ppbv	97
58) Ethyl Benzene	12.74	91	3026531	10.031	ppbv	99
59) m/p-Xylene	13.03	91	4906781m	18.646	ppbv	
60) o-Xylene	13.73	91	2435219	9.326	ppbv	100
61) Styrene	13.56	104	1746775	10.414	ppbv	98
62) Isopropylbenzene	14.70	105	3415534	8.966	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1744161	8.570	ppbv	99
64) n-propylbenzene	15.60	120	902076	9.186	ppbv	95
65) tert-Butylbenzene	16.78	119	2935933	8.926	ppbv	100
66) Benzyl Chloride	17.03	91	1434115	11.688	ppbv	99
67) sec-Butylbenzene	17.33	105	4237116	8.952	ppbv	99
69) p-Isopropyltoluene	17.69	119	3462681	8.887	ppbv	100
70) n-Butylbenzene	18.59	91	3738166	8.811	ppbv	100
71) 2-Chlorotoluene	15.49	91	2695989	9.138	ppbv	100
72) 4-Ethyltoluene	15.88	105	2837920	9.764	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2651149	9.482	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	2740782	8.876	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	1566619	8.789	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1569222	8.800	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1525628	8.853	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1233585	8.222	ppbv	99
79) Naphthalene	22.26	128	2700155	9.936	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	619401	7.390	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1439045	8.873	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 49 Resp: 1135235

Ion Ratio Lower Upper

49 100

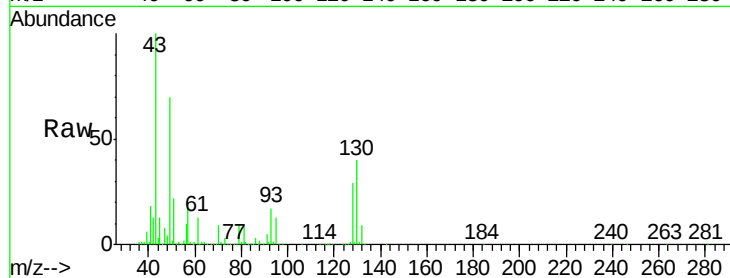
128 42.3 21.6 65.0

130 54.3 27.7 83.1

Manual Integrations
APPROVED

MMDadoda

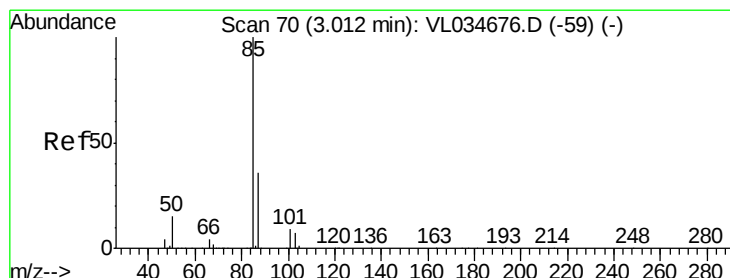
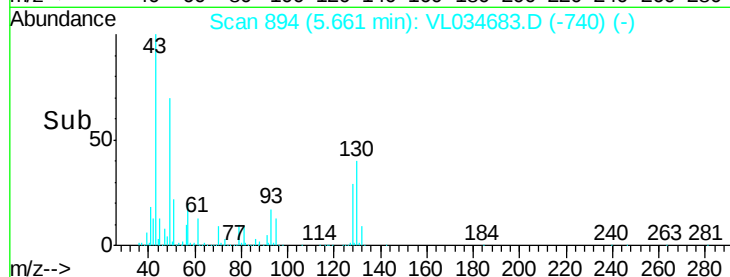
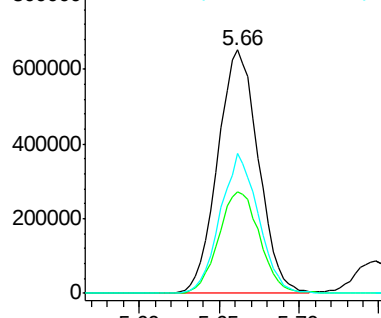
2/27/2020 5:19:40 PM



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: 7.535 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034683.D

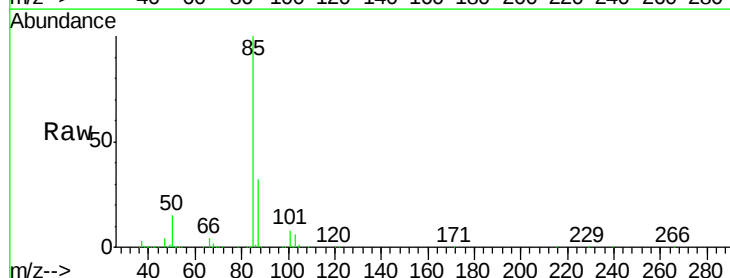
Acq: 26 Feb 2020 6:57

Tgt Ion: 85 Resp: 1349336

Ion Ratio Lower Upper

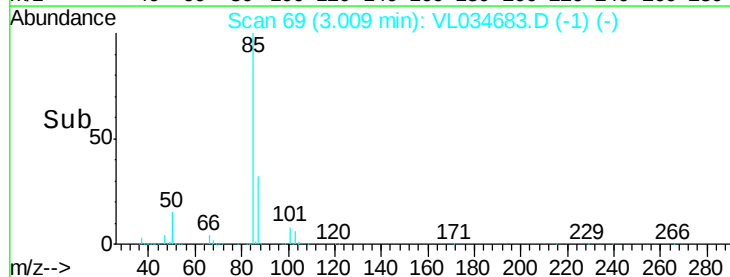
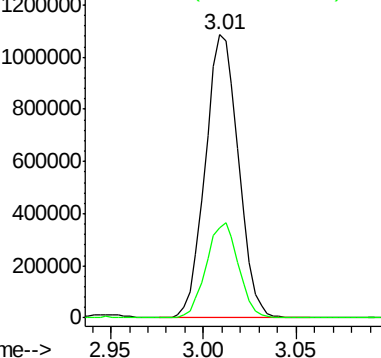
85 100

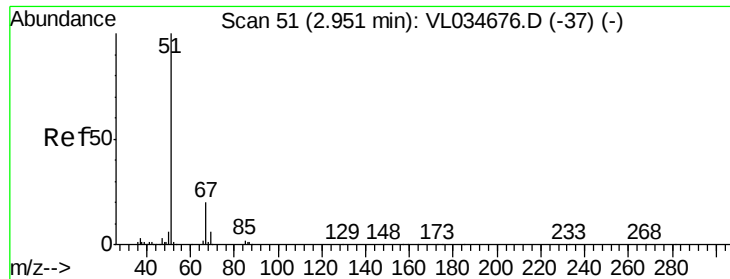
87 31.7 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





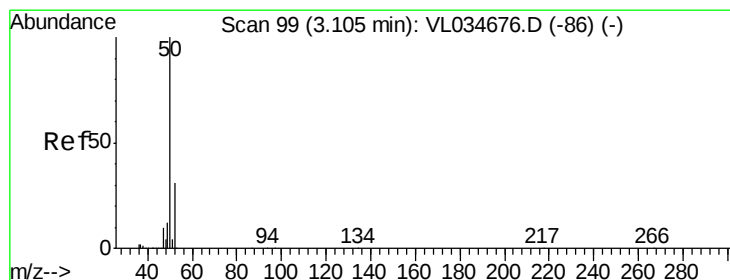
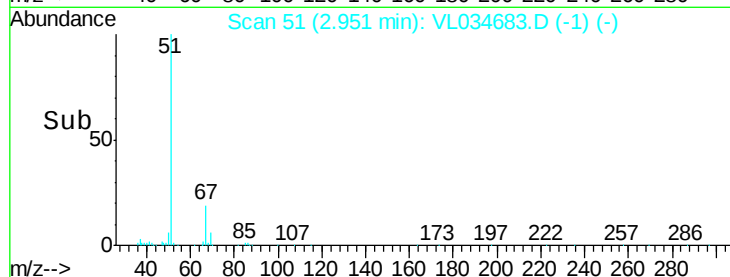
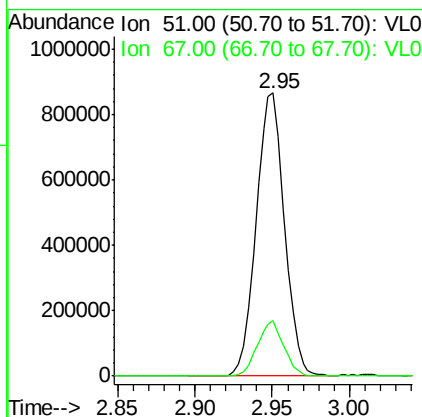
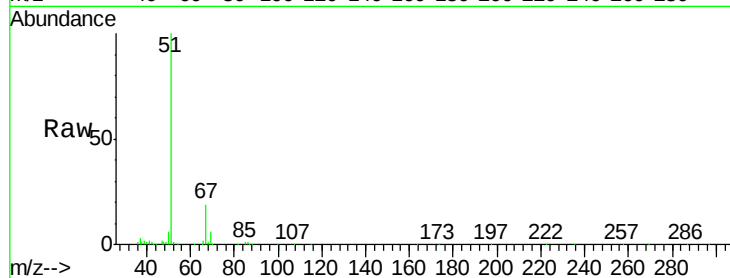
#3
Chlorodifluoromethane
Concen: 9.017 ppbv
RT: 2.95 min Scan# 51
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion: 51 Resp: 1104710
Ion Ratio Lower Upper
51 100
67 18.4 15.5 23.3

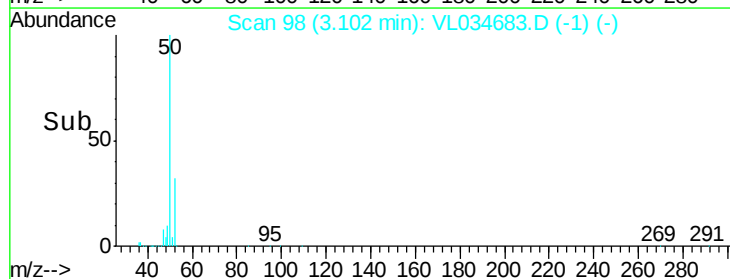
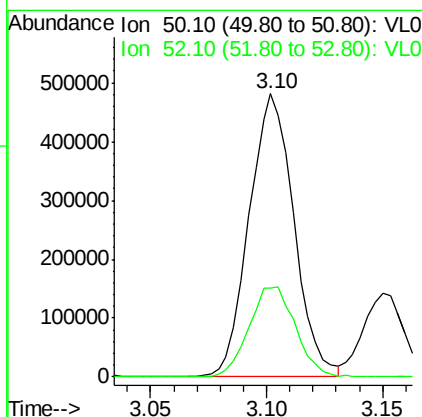
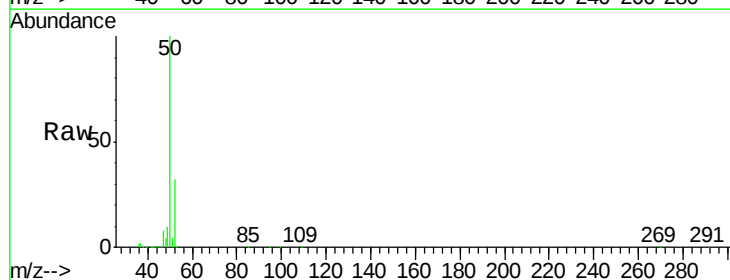
Manual Integrations
APPROVED

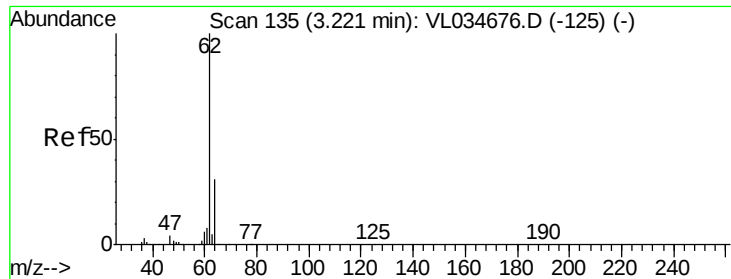
MMDadoda
2/27/2020 5:19:40 PM



#4
Chloromethane
Concen: 9.409 ppbv
RT: 3.10 min Scan# 98
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion: 50 Resp: 645245
Ion Ratio Lower Upper
50 100
52 31.5 25.0 37.4





#5

Vinyl Chloride

Concen: 9.282 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 62 Resp: 624472

Ion Ratio Lower Upper

62 100

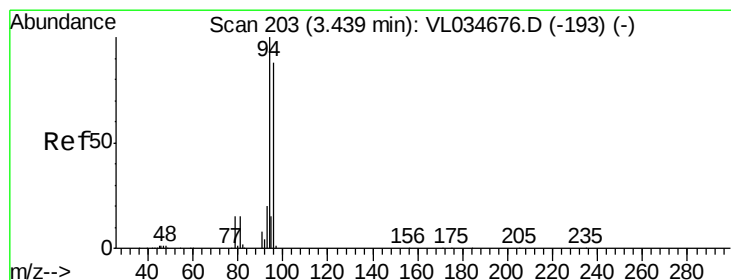
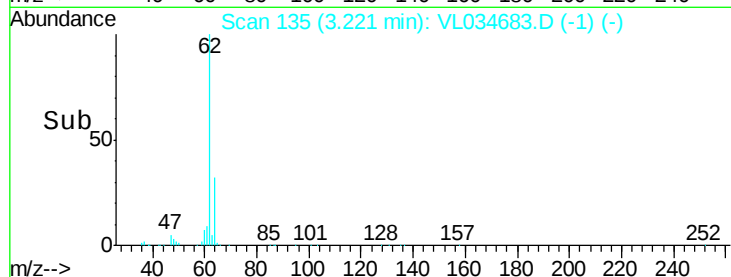
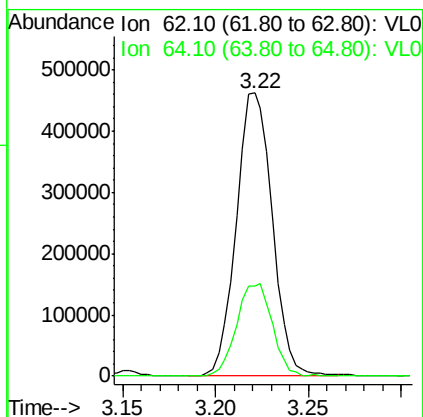
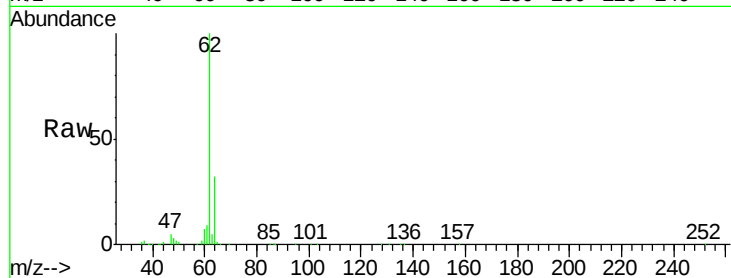
64 32.0 24.7 37.1

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:40 PM



#6

Bromomethane

Concen: 9.056 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034683.D

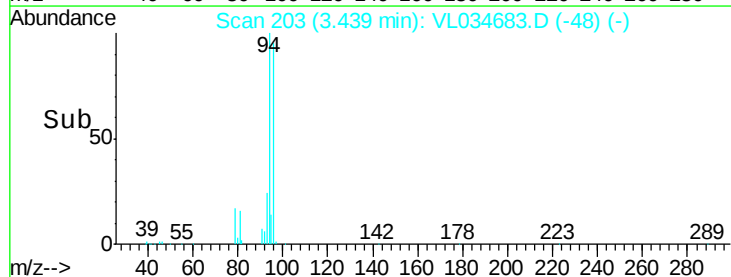
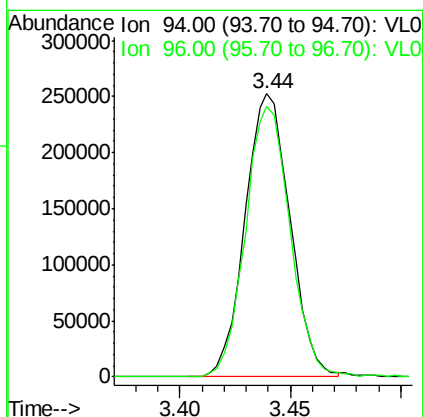
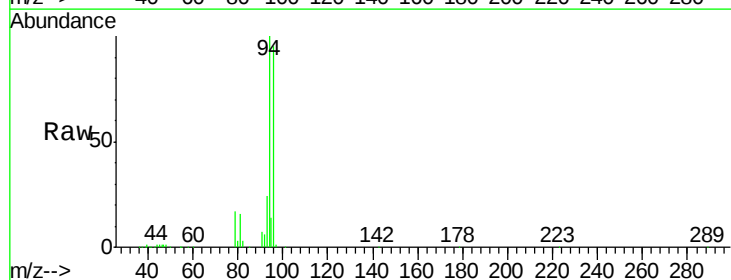
Acq: 26 Feb 2020 6:57

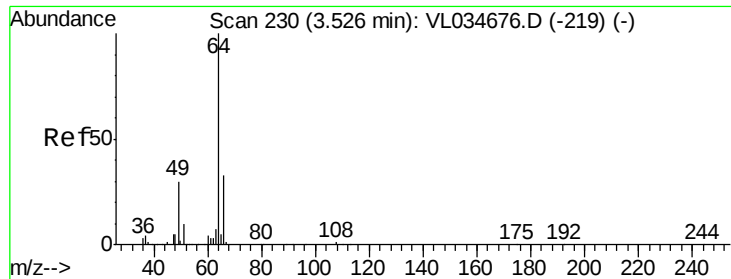
Tgt Ion: 94 Resp: 356963

Ion Ratio Lower Upper

94 100

96 95.4 70.5 105.7





#7

Chloroethane

Concen: 9.048 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 64 Resp: 225988

Ion Ratio Lower Upper

64 100

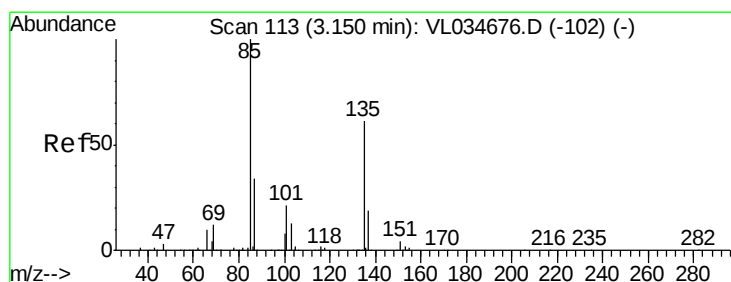
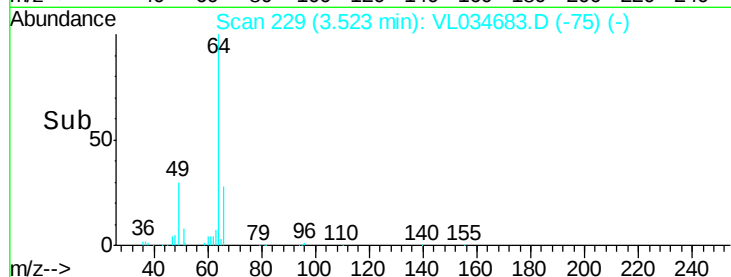
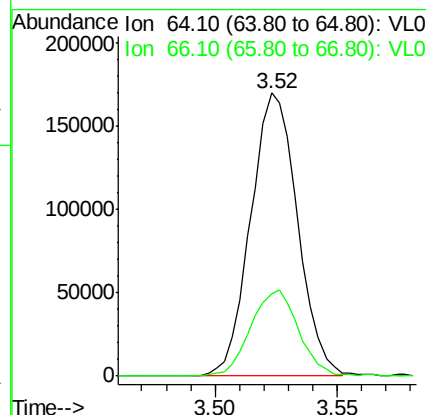
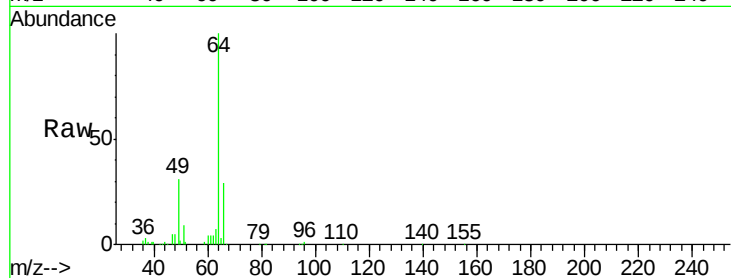
66 29.3 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:40 PM



#8

Dichlorotetrafluoroethane

Concen: 8.638 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034683.D

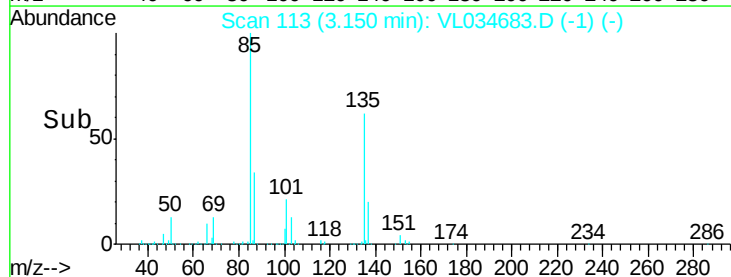
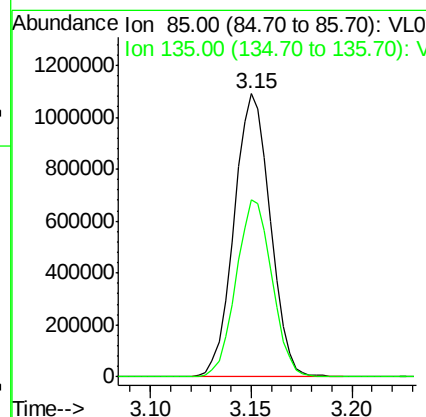
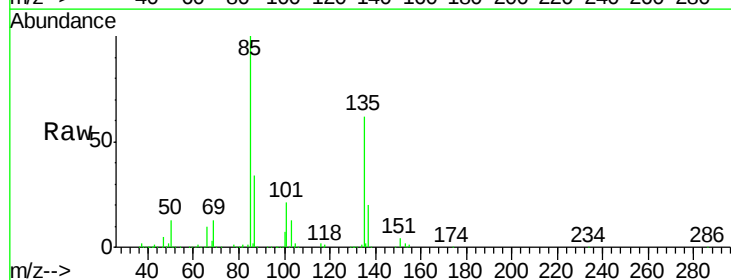
Acq: 26 Feb 2020 6:57

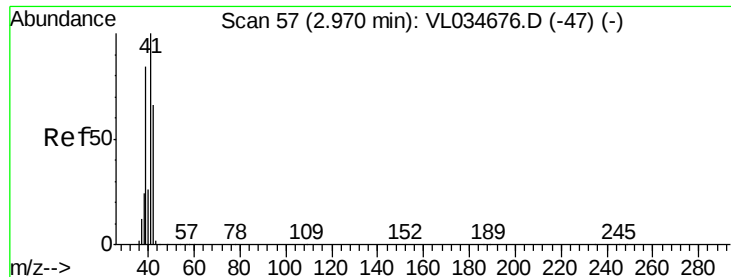
Tgt Ion: 85 Resp: 1368379

Ion Ratio Lower Upper

85 100

135 62.4 49.8 74.6





#9

Propene

Concen: 9.939 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 41 Resp: 508982

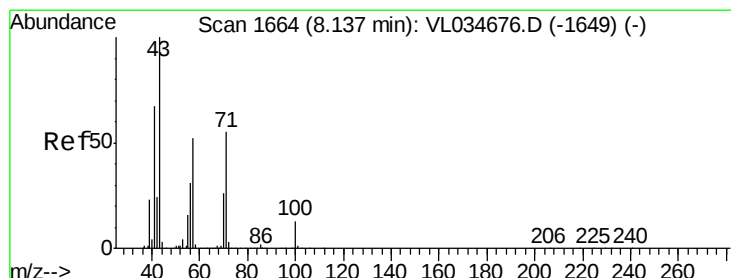
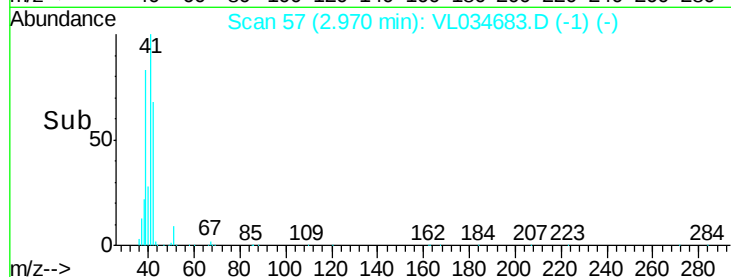
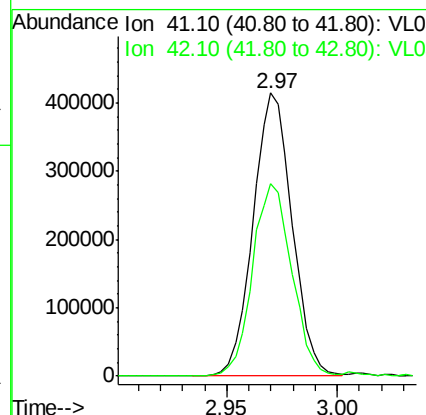
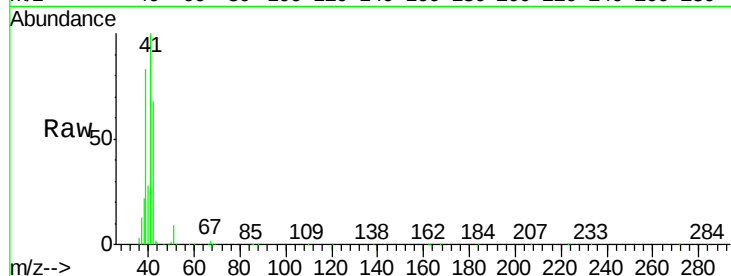
Ion Ratio Lower Upper

41 100

42 69.6 54.9 82.3

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



#10

Heptane

Concen: 10.029 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034683.D

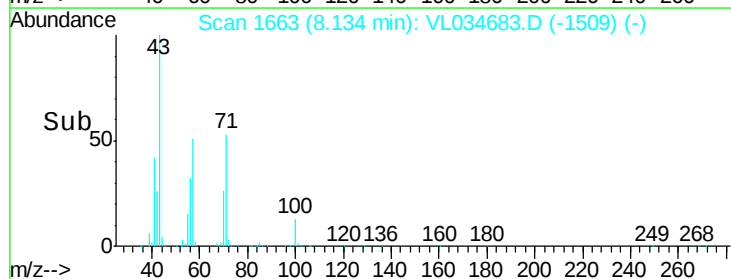
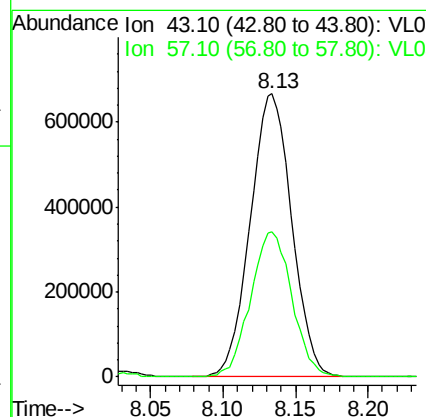
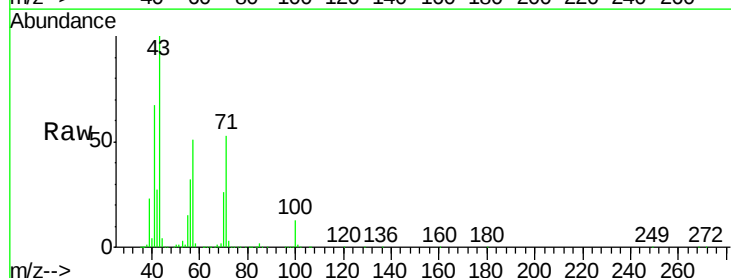
Acq: 26 Feb 2020 6:57

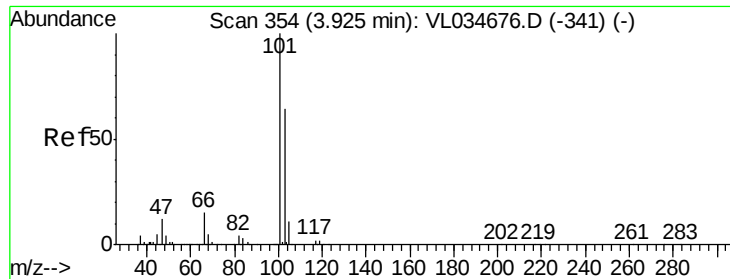
Tgt Ion: 43 Resp: 1322012

Ion Ratio Lower Upper

43 100

57 51.3 41.0 61.6





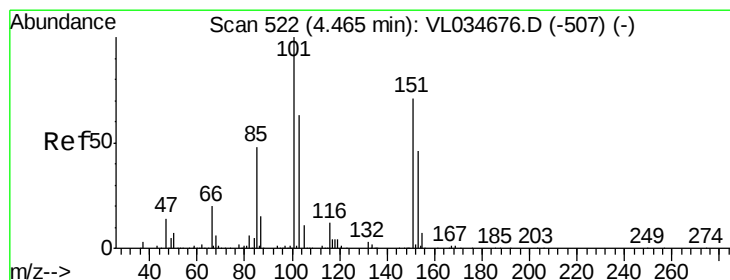
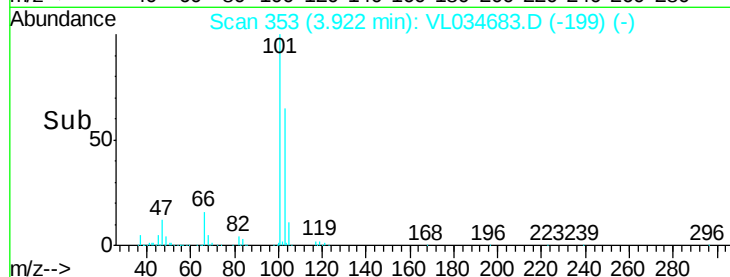
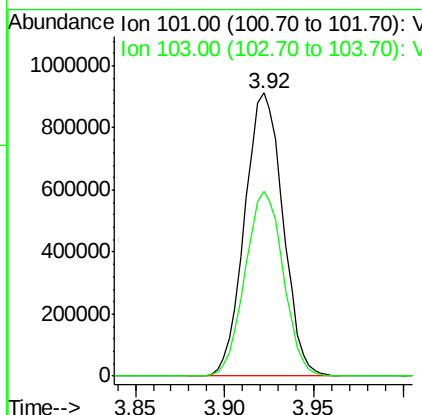
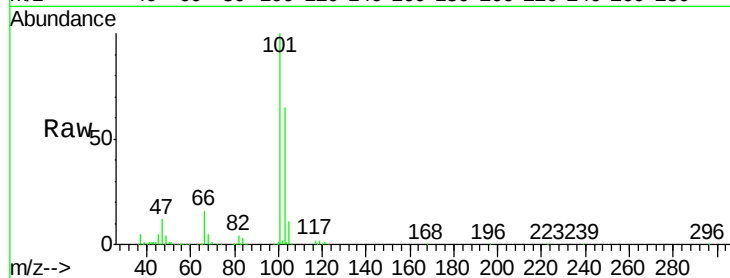
#11
 Trichlorofluoromethane
 Concen: 8.724 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion:101 Resp: 1368424
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.2 76.8

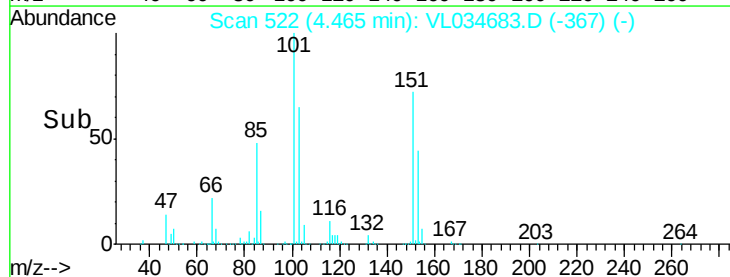
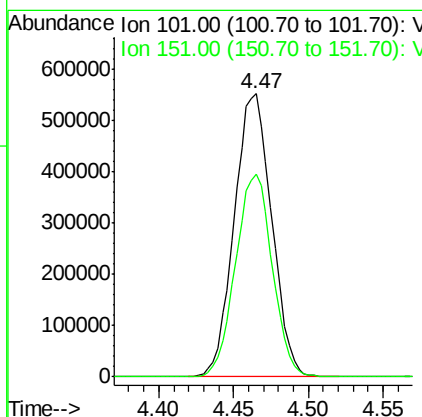
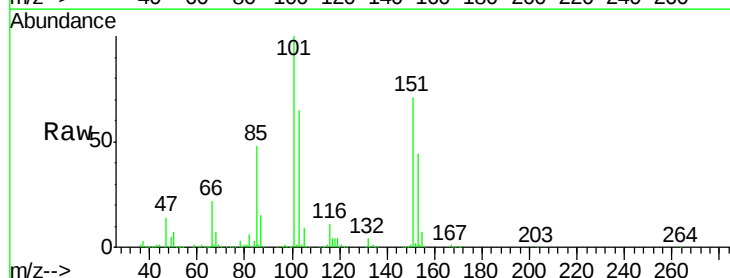
Manual Integrations
 APPROVED

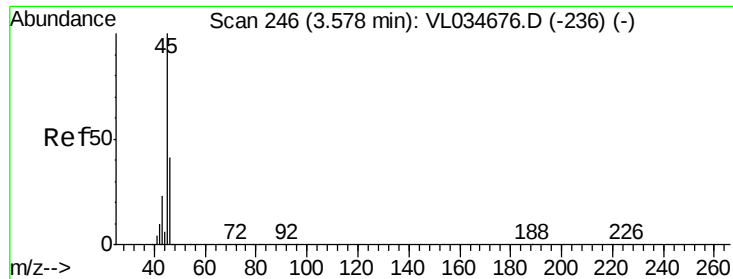
MMDadoda
 2/27/2020 5:19:40 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.708 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion:101 Resp: 962782
 Ion Ratio Lower Upper
 101 100
 151 70.4 55.8 83.6





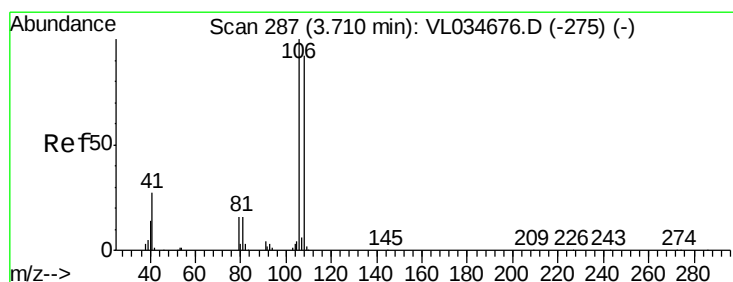
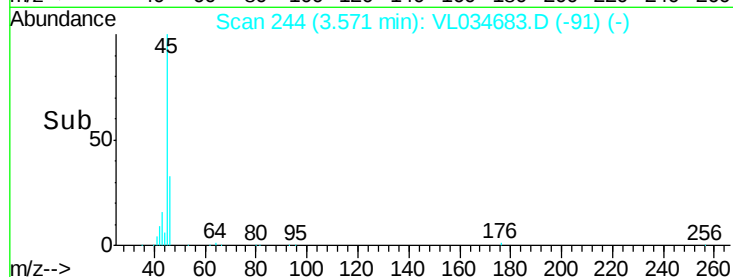
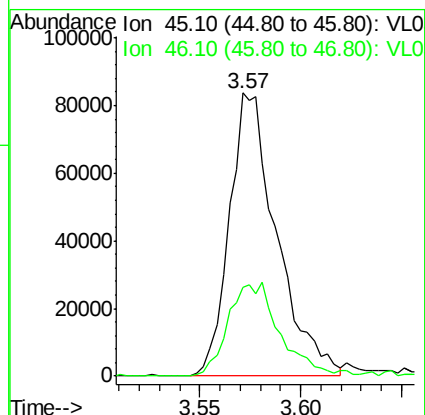
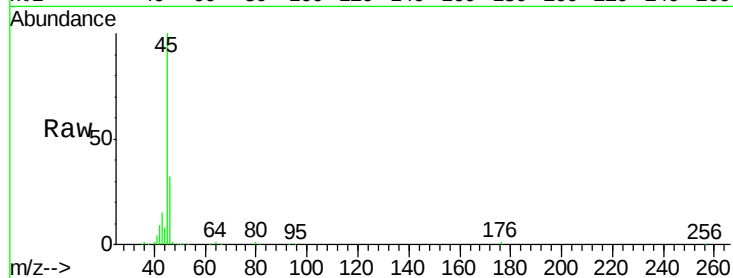
#13
Ethanol
Concen: 8.507 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	45	Resp	137621
Ion Ratio	100	Lower	Upper
46	35.8	15.4	61.4

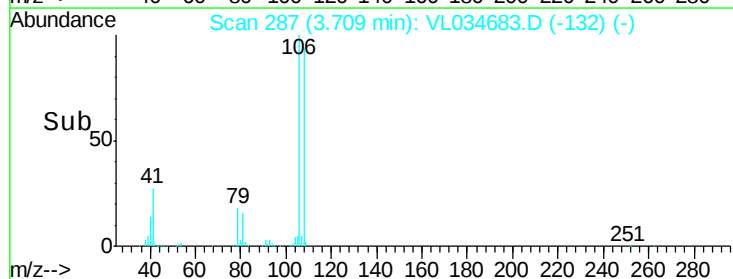
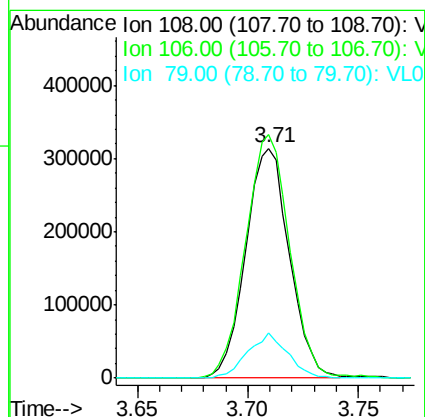
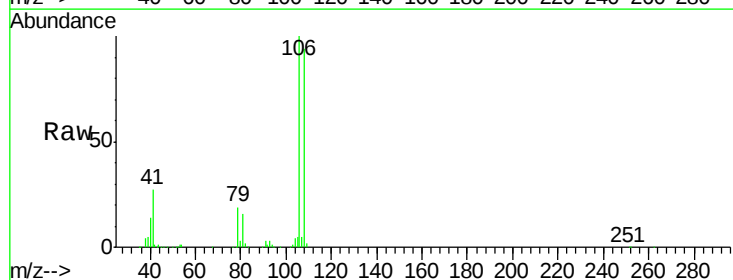
Manual Integrations
APPROVED

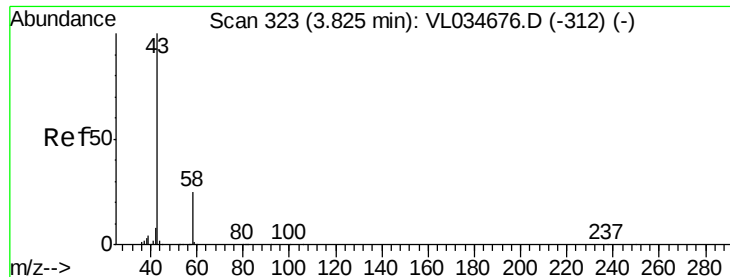
MMDadoda
2/27/2020 5:19:40 PM



#14
Bromoethene
Concen: 9.349 ppbv
RT: 3.71 min Scan# 287
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	108	Resp	431280
Ion Ratio	100	Lower	Upper
106	107.8	86.7	130.1
79	18.5	15.0	22.6





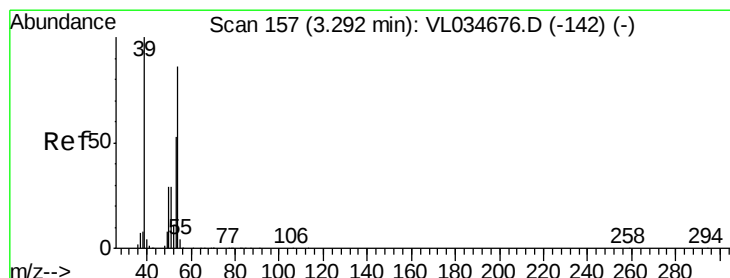
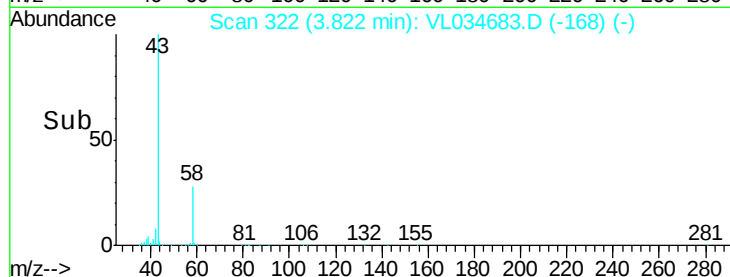
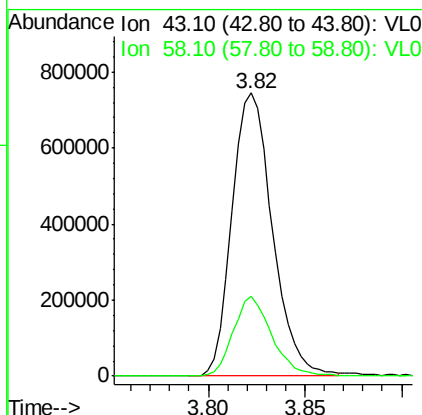
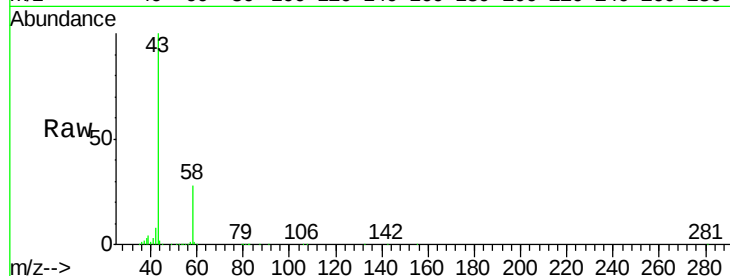
#15
Acetone
Concen: 8.367 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion: 43 Resp: 1082411
Ion Ratio Lower Upper
43 100
58 27.0 21.4 32.0

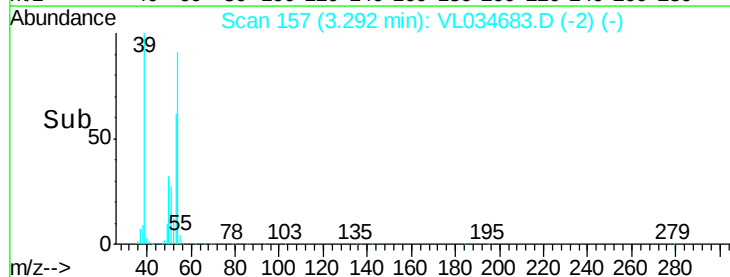
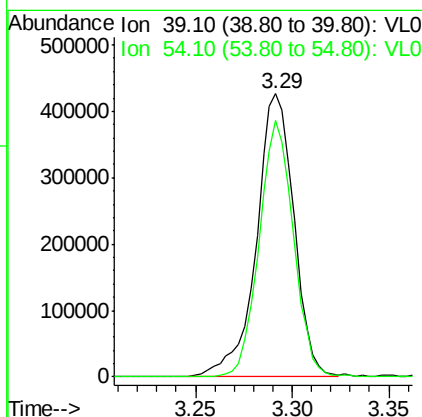
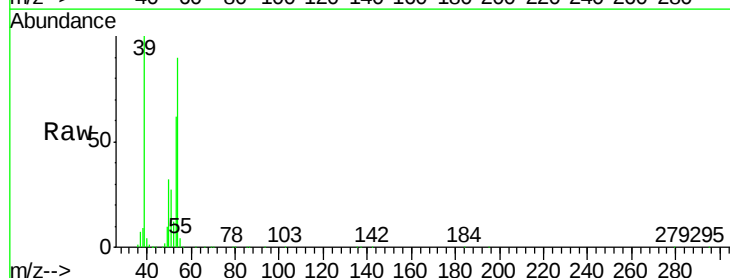
Manual Integrations
APPROVED

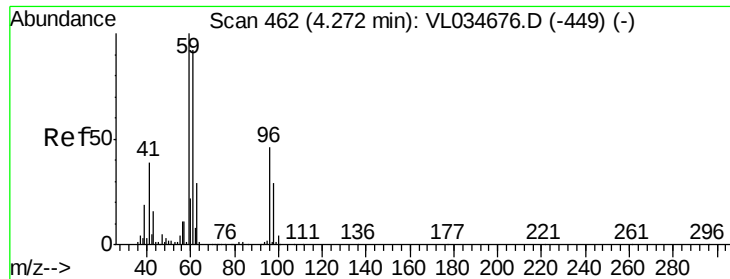
MMDadoda
2/27/2020 5:19:40 PM



#16
1,3-Butadiene
Concen: 9.551 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion: 39 Resp: 571942
Ion Ratio Lower Upper
39 100
54 83.5 67.0 100.6





#17

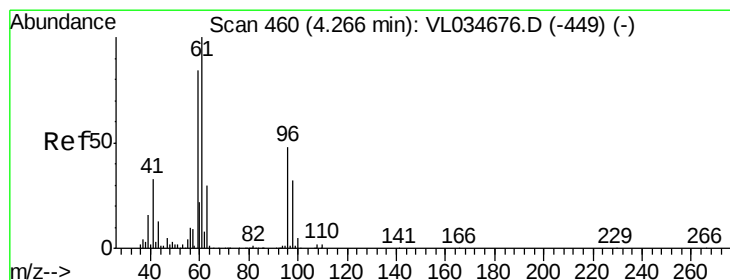
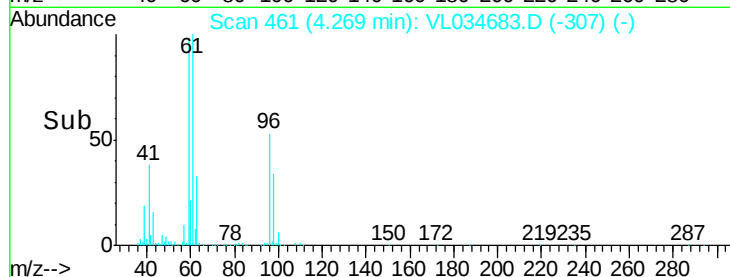
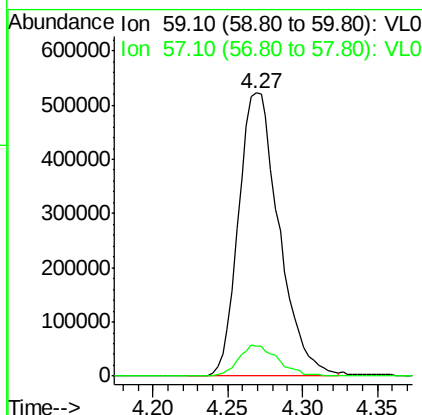
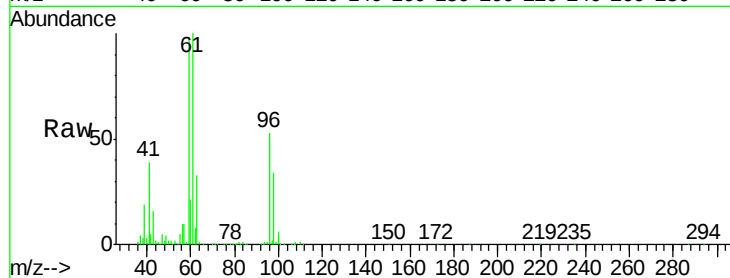
tert-Butyl alcohol
Concen: 9.950 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

Manual Integrations
APPROVED

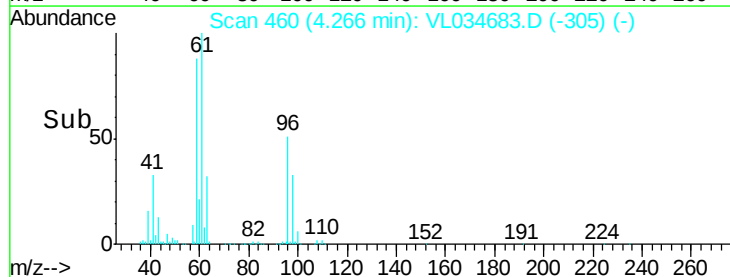
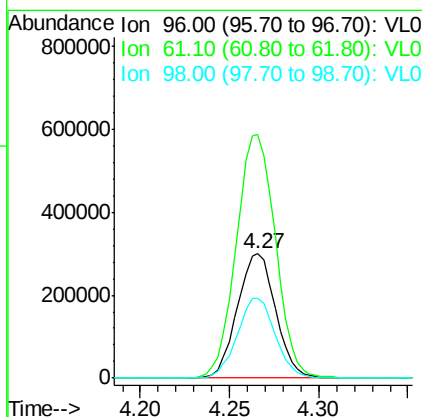
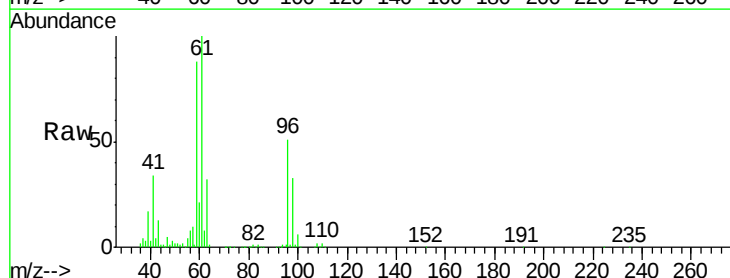
MMDadoda
2/27/2020 5:19:40 PM

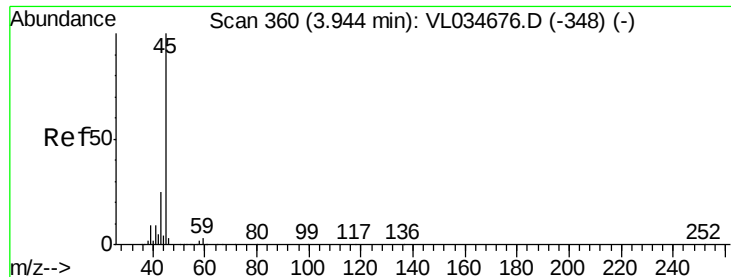


#18

1,1-Dichloroethene
Concen: 9.050 ppbv
RT: 4.27 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.2	165.1	247.7
98	64.8	52.7	79.1





#19

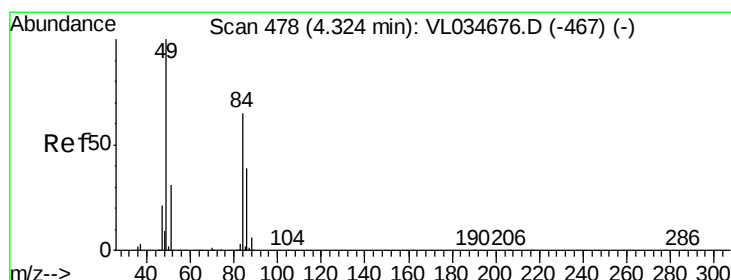
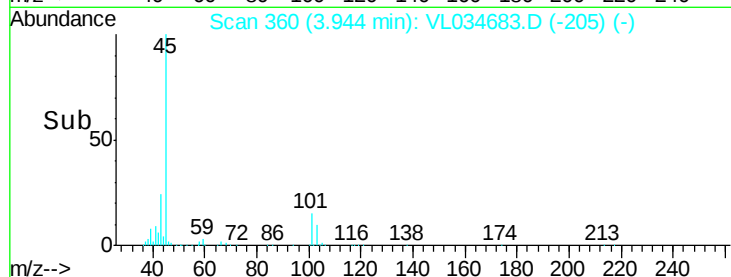
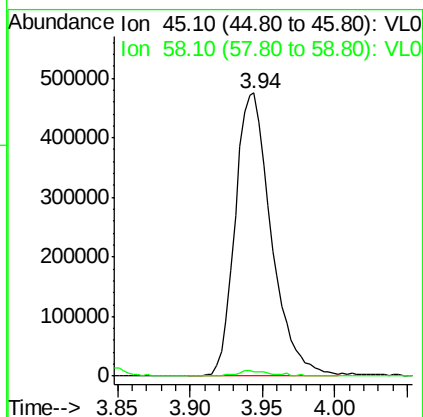
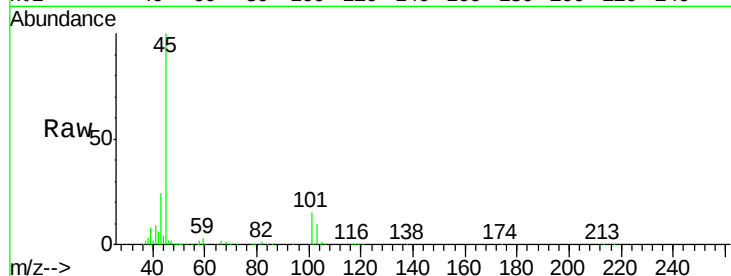
Isopropyl Alcohol
 Concen: 10.668 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.8	2.6

Manual Integrations
 APPROVED

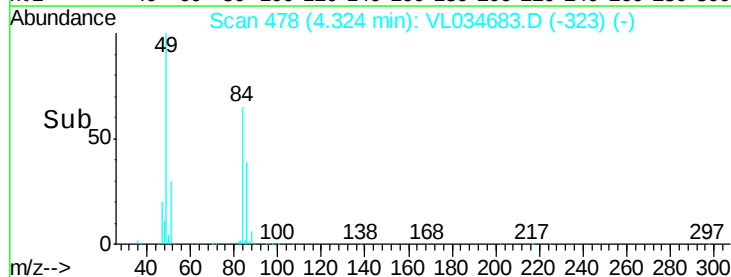
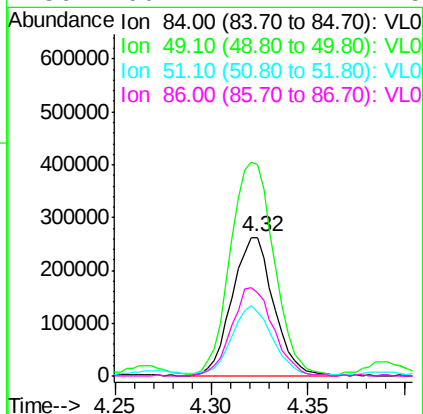
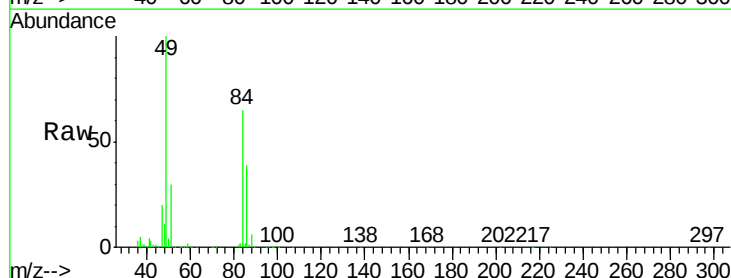
MMDadoda
 2/27/2020 5:19:40 PM

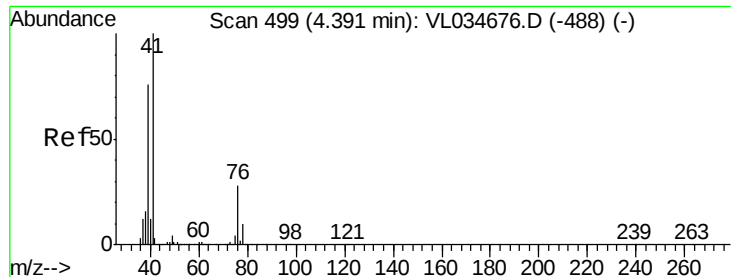


#20

Methylene Chloride
 Concen: 8.155 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
84	100		
49	152.2	122.8	184.2
51	45.0	38.6	58.0
86	60.1	47.7	71.5





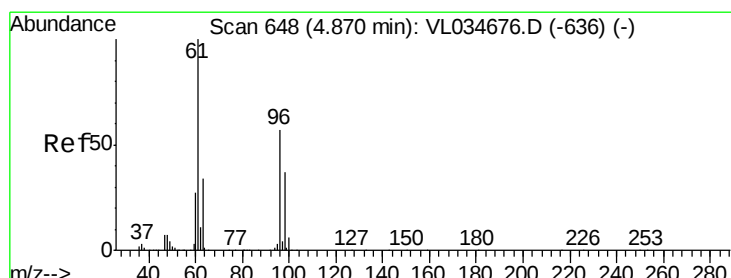
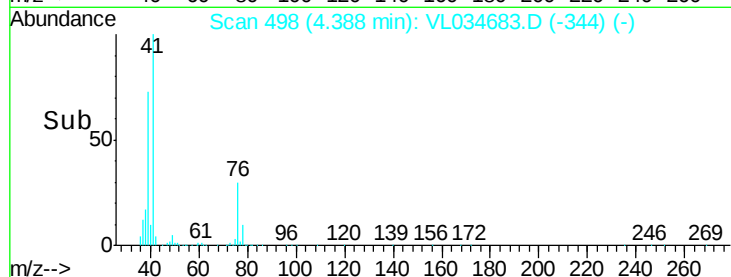
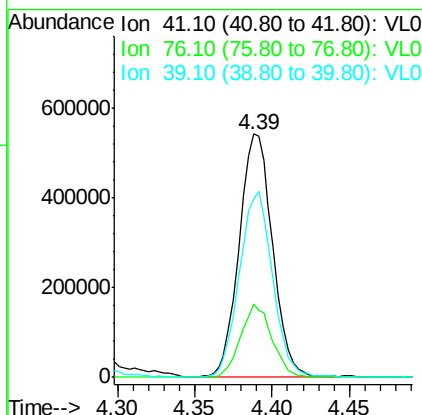
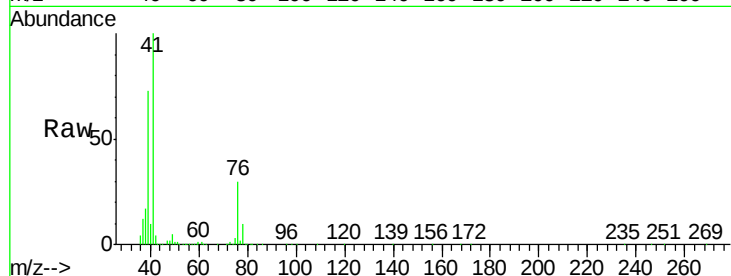
#21
Allvl Chloride
Concen: 9.443 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.5	22.8	34.2
39	77.8	61.7	92.5

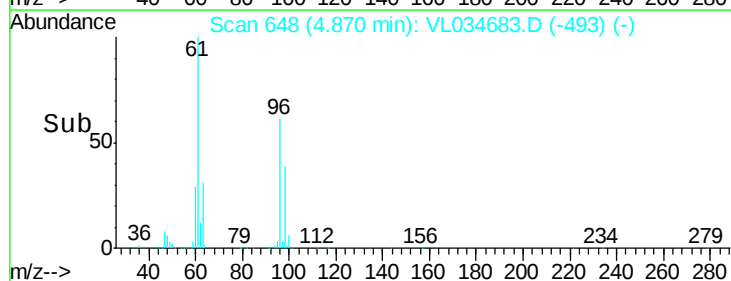
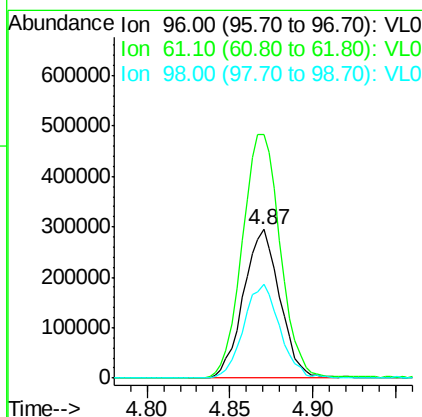
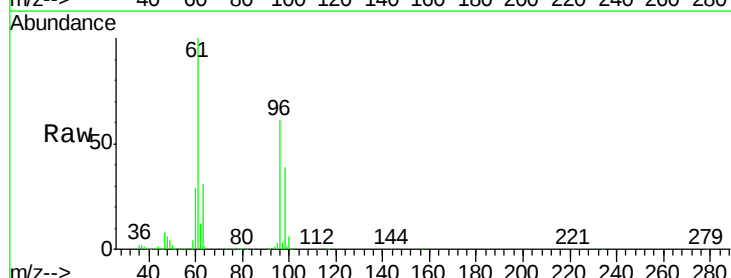
Manual Integrations
APPROVED

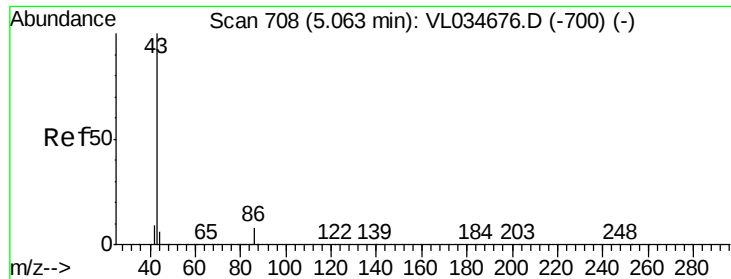
MMDadoda
2/27/2020 5:19:40 PM



#22
trans-1,2-Dichloroethene
Concen: 9.315 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.9	139.4	209.0
98	63.1	51.3	76.9





#23

Vinyl Acetate

Concen: 10.561 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 43 Resp: 1857351

Ion Ratio Lower Upper

43 100

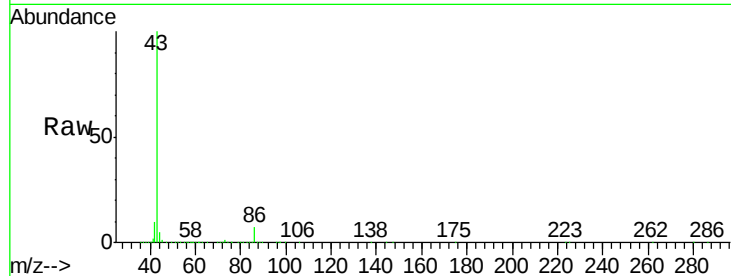
86 6.9 6.0 9.0

42 9.5 8.0 12.0

44 5.0 4.5 6.7

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM

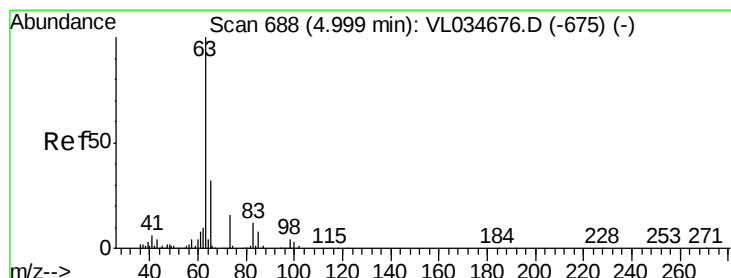
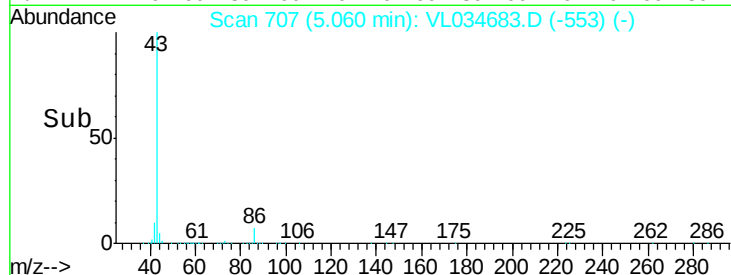
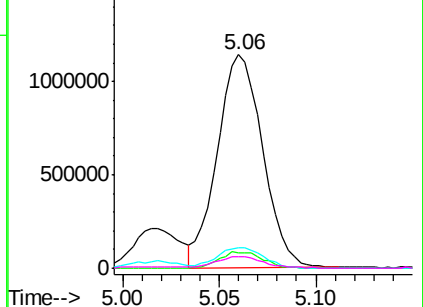


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.194 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

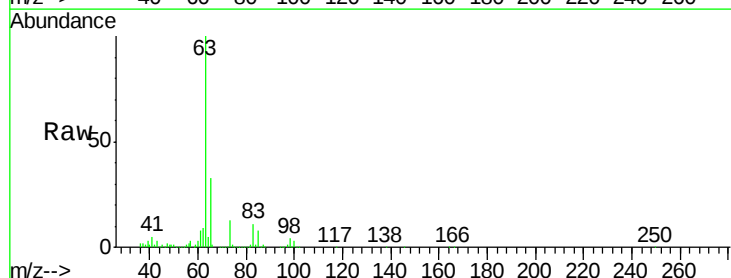
Tgt Ion: 63 Resp: 1291247

Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.2

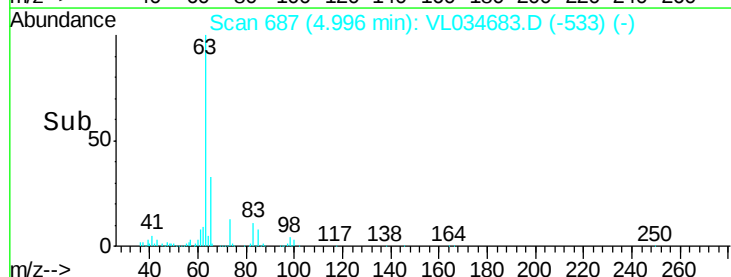
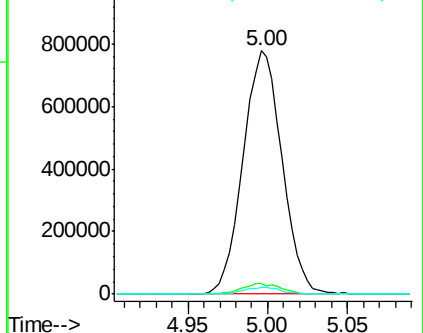
100 2.9 1.4 4.0

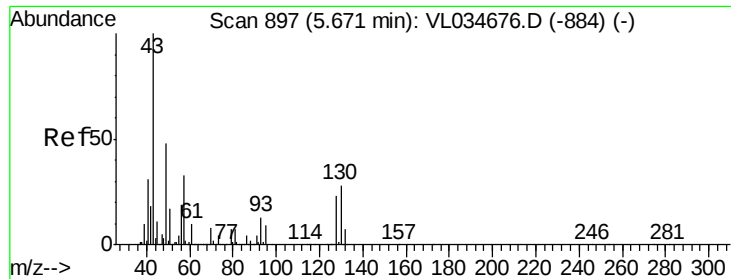


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.485 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 43 Resp: 2171959

Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

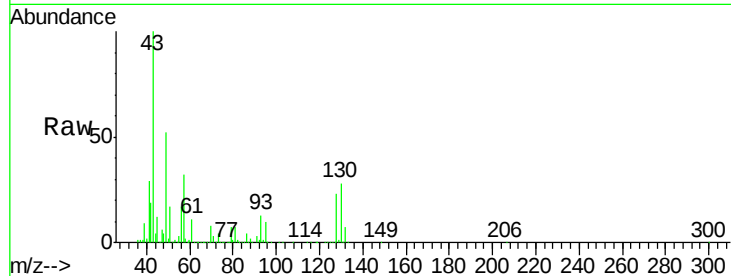
61 9.9 7.8 11.6

70 7.6 6.1 9.1

Manual Integrations
APPROVED

MMDadoda

2/27/2020 5:19:40 PM

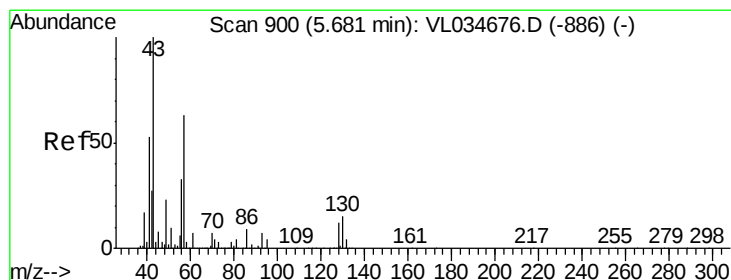
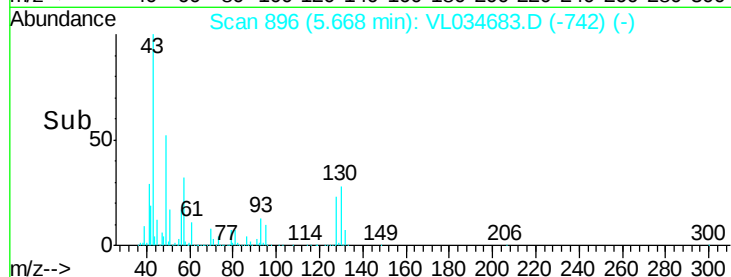
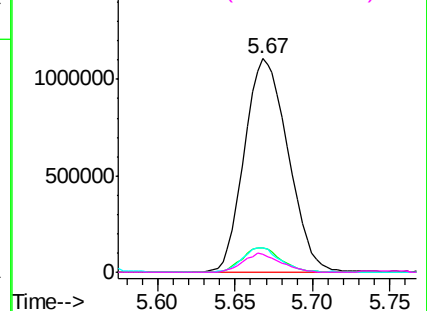


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.565 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion: 57 Resp: 1009543

Ion Ratio Lower Upper

57 100

41 86.6 70.3 105.5

43 216.6 177.0 265.4

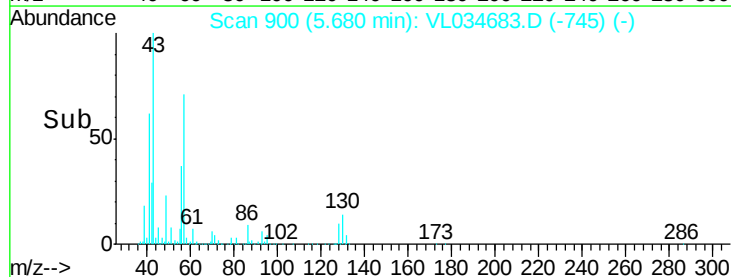
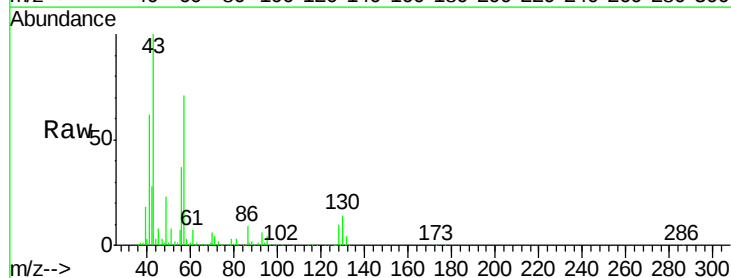
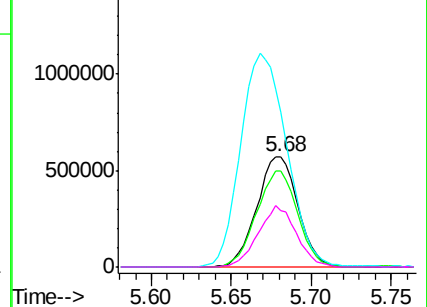
56 51.8 42.6 64.0

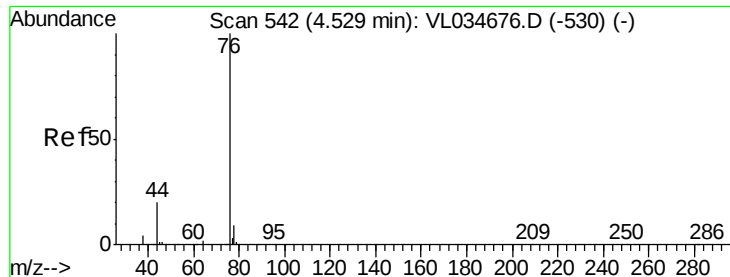
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 9.770 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 76 Resp: 1170570

Ion Ratio Lower Upper

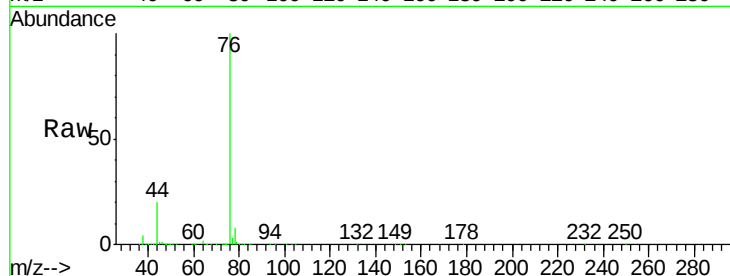
76 100

44 19.0 15.3 22.9

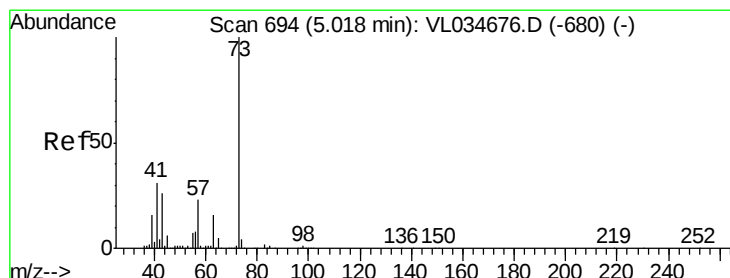
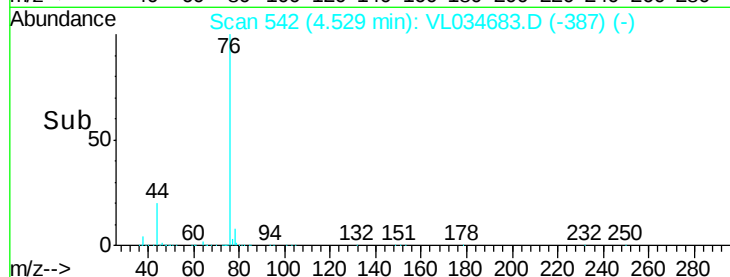
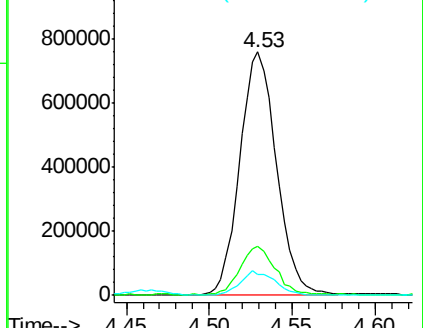
78 9.6 7.6 11.4

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 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: 9.562 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL034683.D

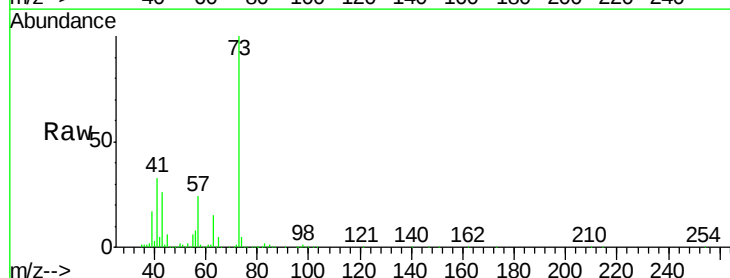
Acq: 26 Feb 2020 6:57

Tgt Ion: 73 Resp: 1441733

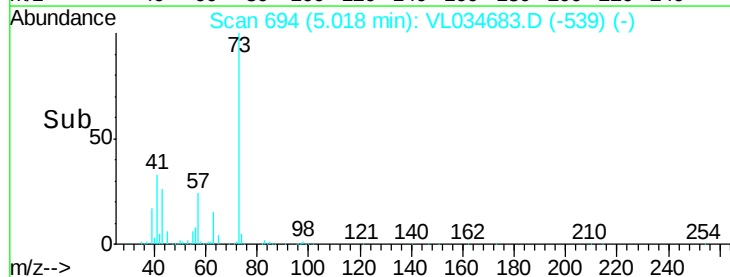
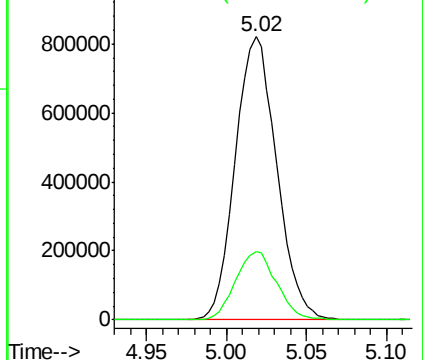
Ion Ratio Lower Upper

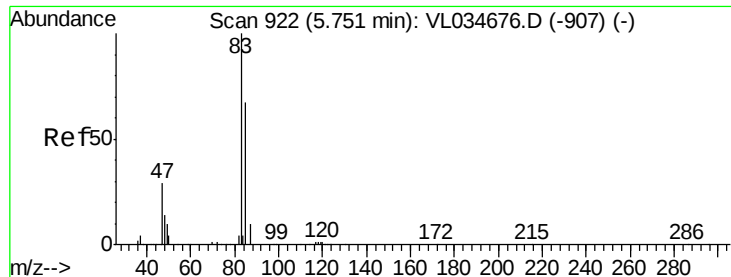
73 100

57 24.2 18.6 28.0



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





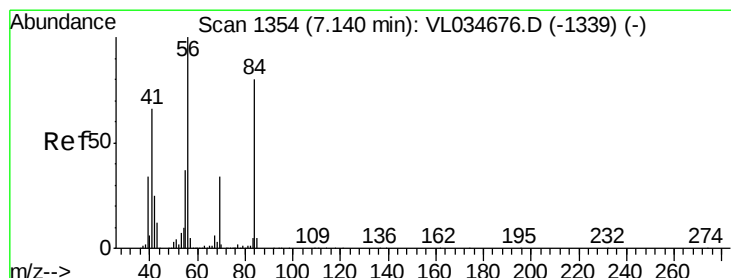
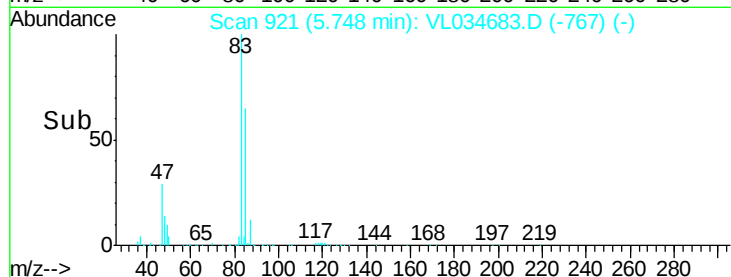
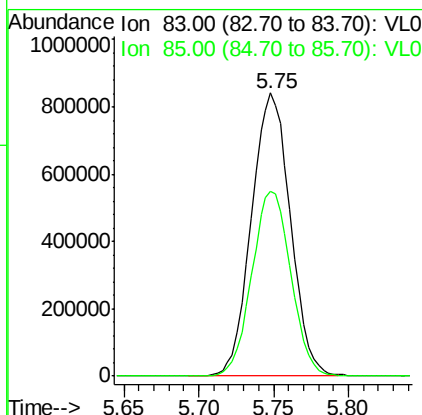
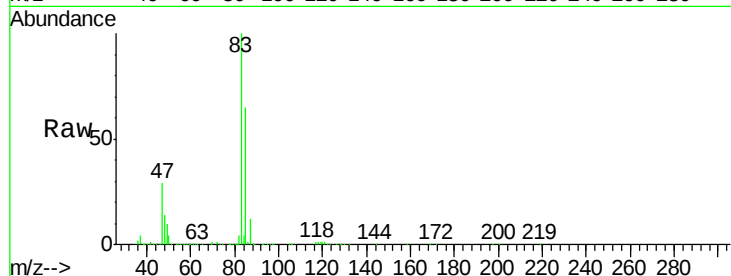
#29
Chloroform
Concen: 9.032 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion: 83 Resp: 1518785
Ion Ratio Lower Upper
83 100
85 65.0 53.9 80.9

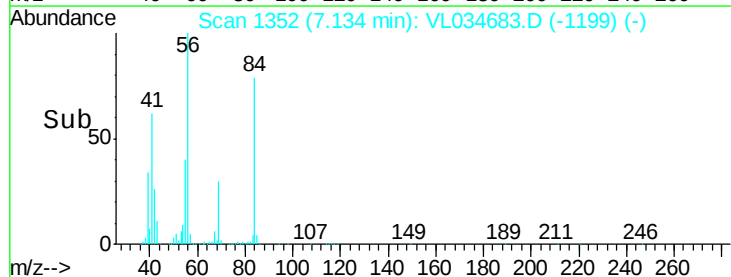
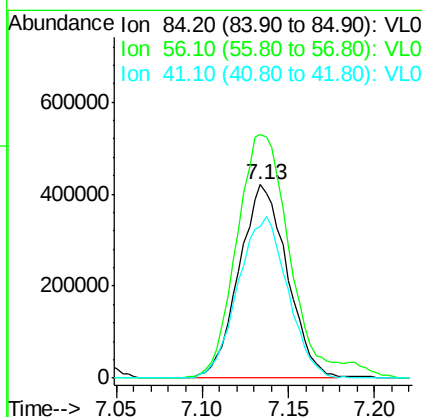
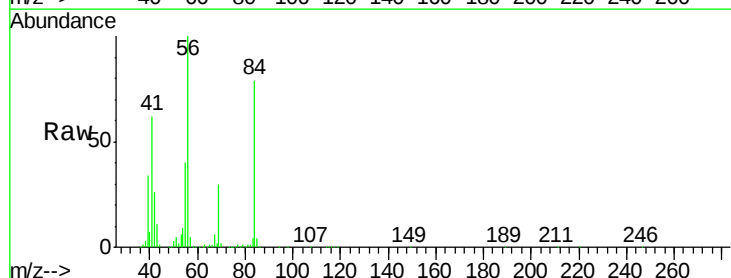
Manual Integrations
APPROVED

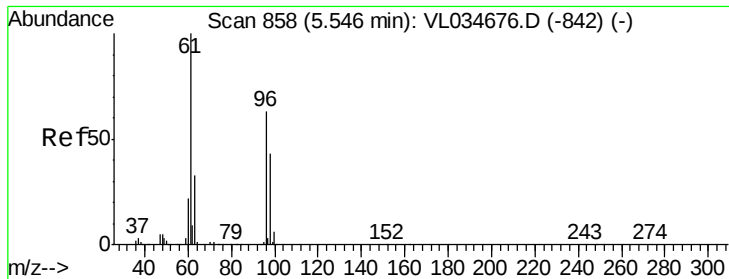
MMDadoda
2/27/2020 5:19:40 PM



#30
Cyclohexane
Concen: 10.012 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion: 84 Resp: 818985
Ion Ratio Lower Upper
84 100
56 141.6 113.4 170.2
41 86.1 68.2 102.4





#31

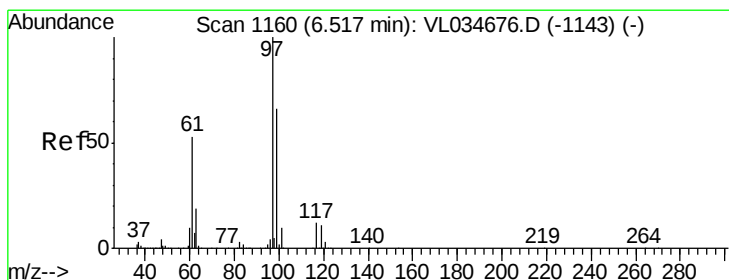
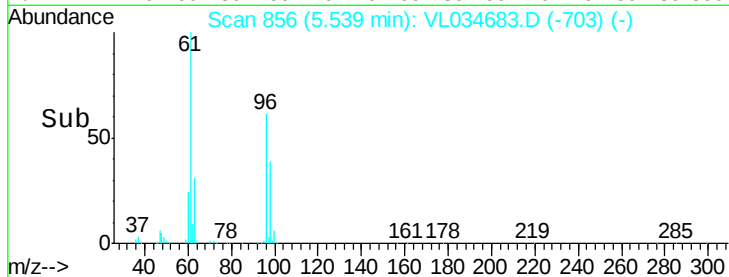
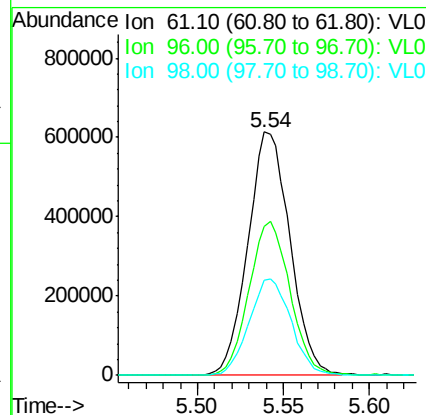
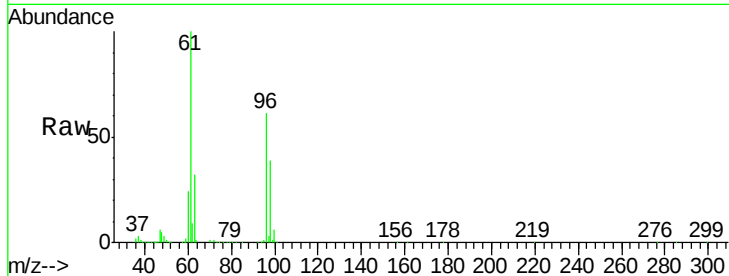
cis-1,2-Dichloroethene
 Concen: 10.038 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.3	50.2	75.2
98	39.3	34.3	51.5

Manual Integrations
 APPROVED

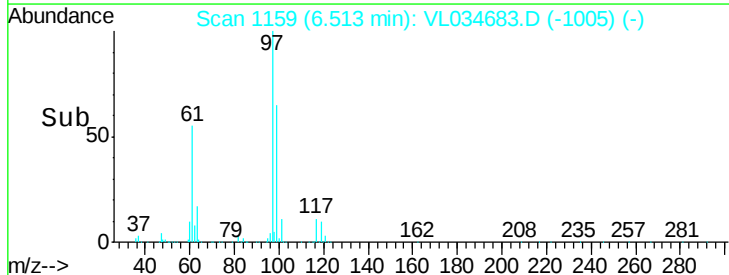
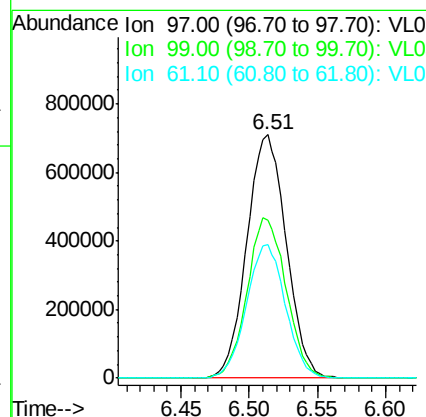
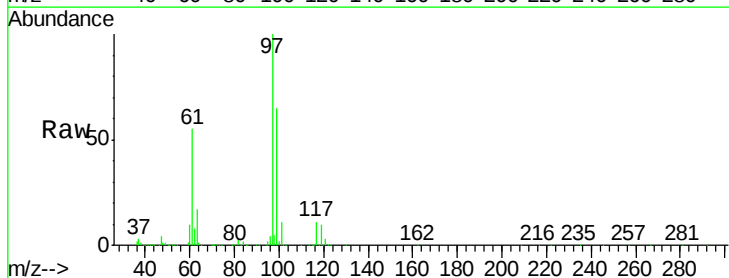
MMDadoda
 2/27/2020 5:19:40 PM

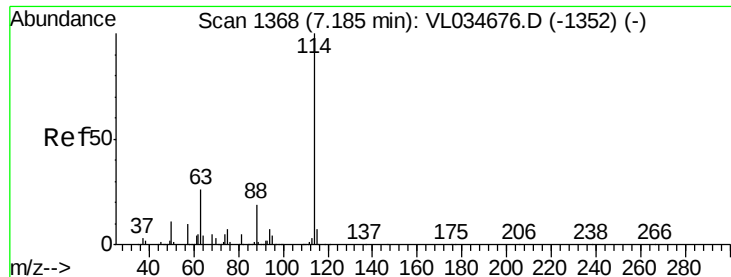


#32

1,1,1-Trichloroethane
 Concen: 9.076 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.3	78.5
61	54.4	42.8	64.2





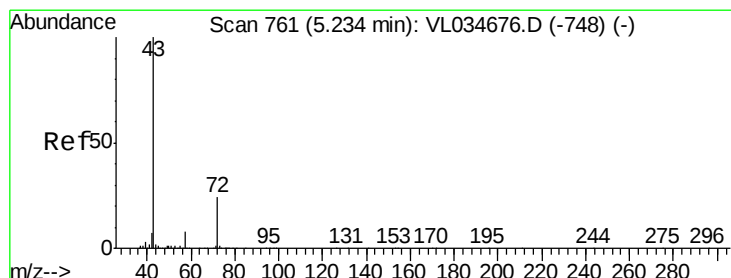
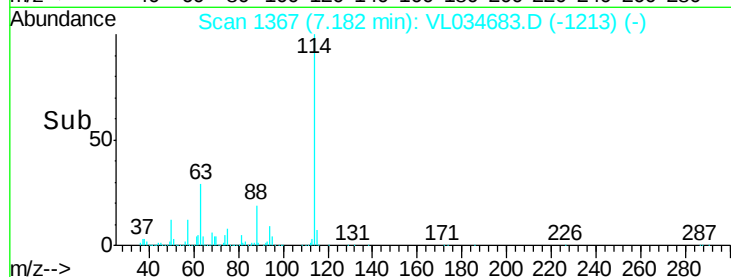
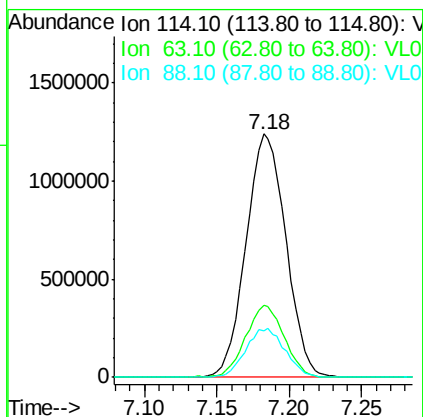
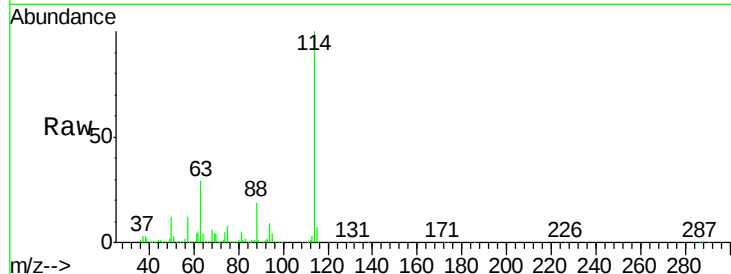
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.0	22.9	34.3
88	19.8	15.8	23.6

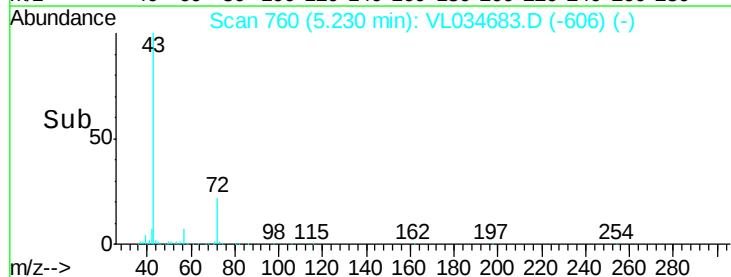
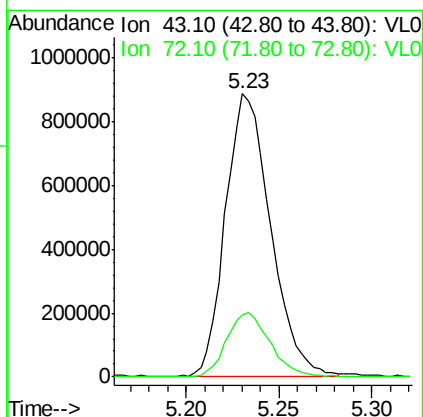
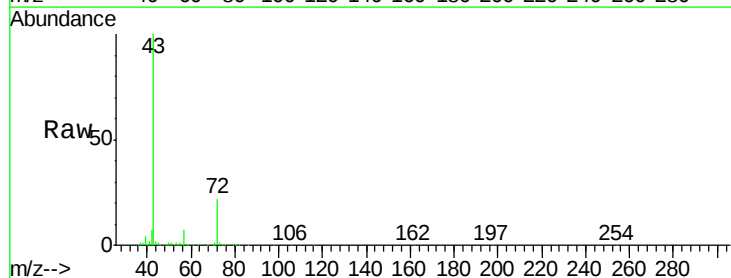
Manual Integrations
 APPROVED

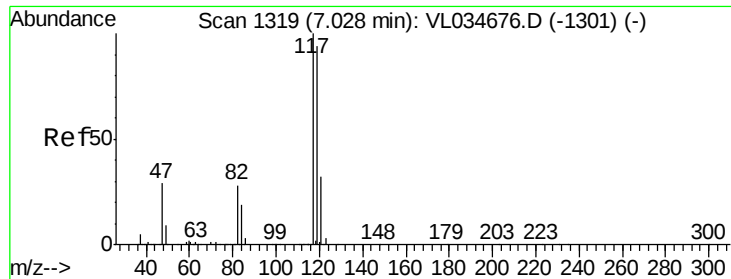
MMDadoda
 2/27/2020 5:19:40 PM



#34
 2-Butanone
 Concen: 9.937 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2





#35

Carbon Tetrachloride

Concen: 9.339 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

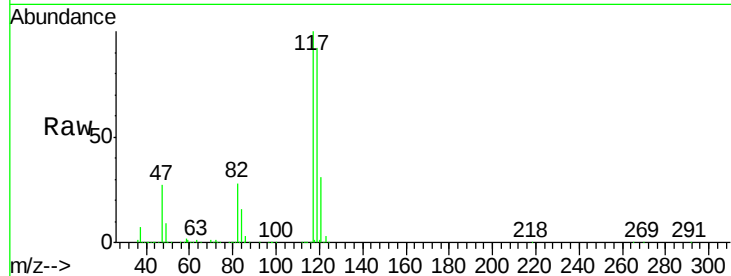
ClientSampleId :

ICVVL022620

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.1	75.5	113.3
121	30.8	25.4	38.0

Manual Integrations
APPROVED

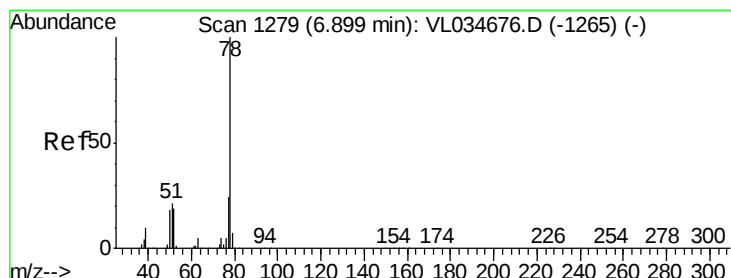
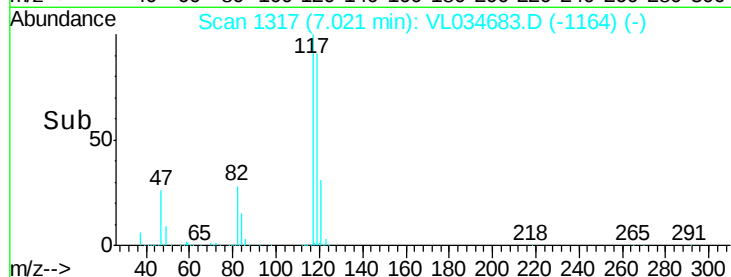
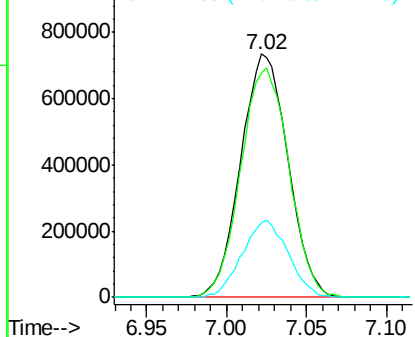
MMDadoda
2/27/2020 5:19:40 PM



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: 9.706 ppbv

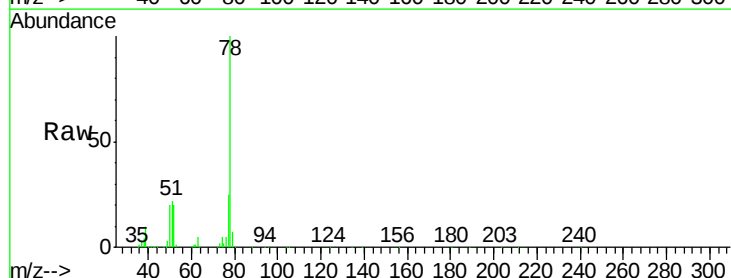
RT: 6.90 min Scan# 1279

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

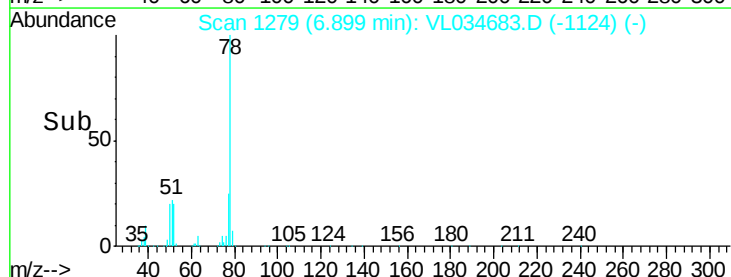
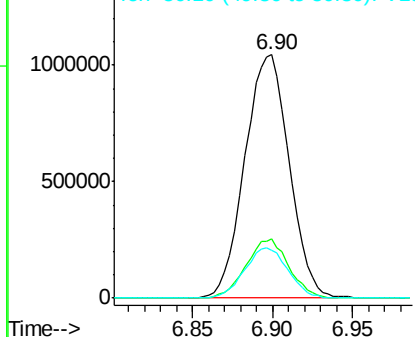
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.5	29.3
50	19.6	14.6	21.8

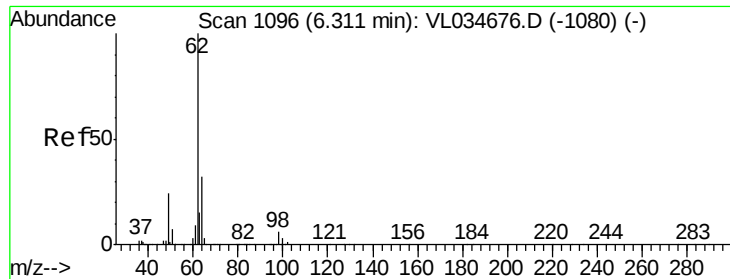


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.403 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 62 Resp: 1216367

Ion Ratio Lower Upper

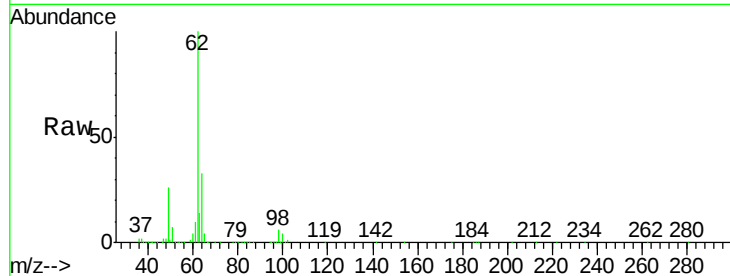
62 100

98 5.7 4.7 7.1

Manual Integrations
APPROVED

MMDadoda

2/27/2020 5:19:40 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.31

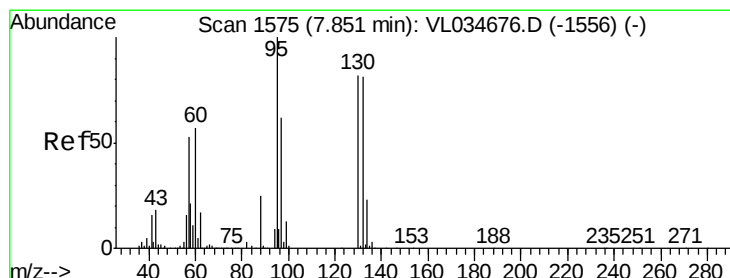
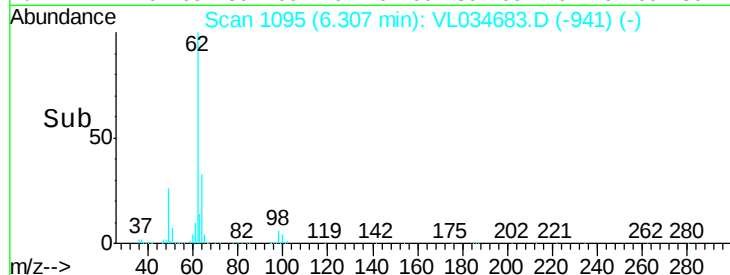
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 9.107 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion: 130 Resp: 720355

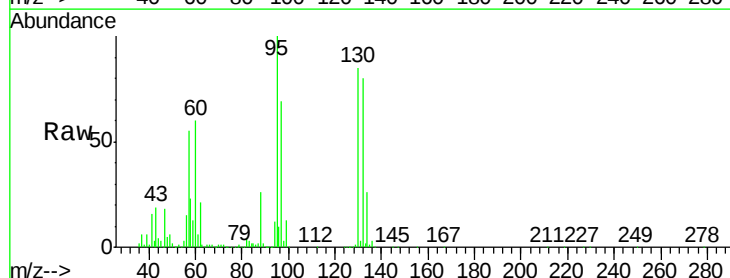
Ion Ratio Lower Upper

130 100

95 118.0 97.1 145.7

132 94.8 78.3 117.5

97 81.4 60.1 90.1



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

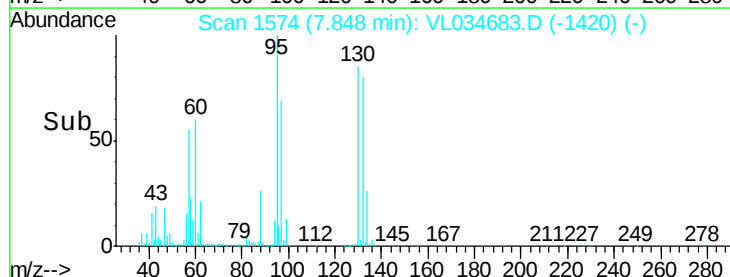
600000

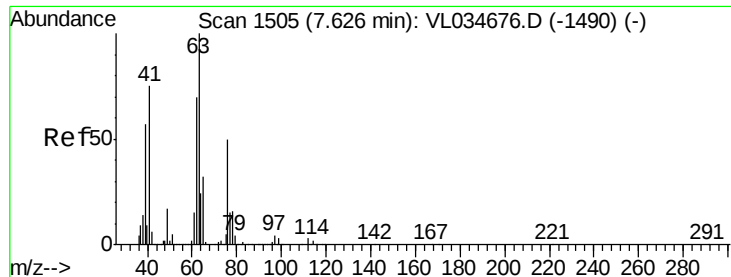
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 9.771 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

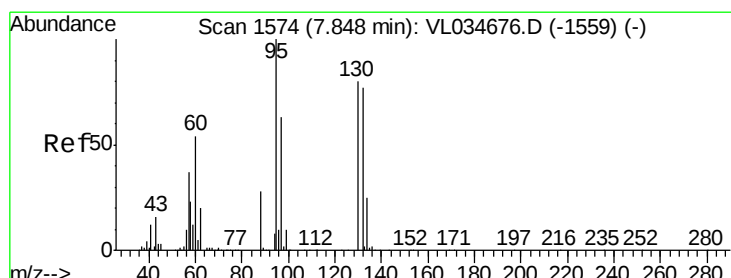
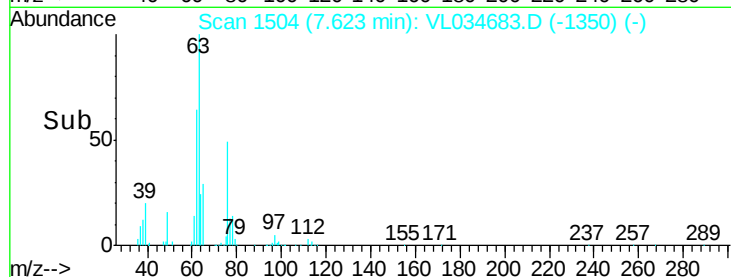
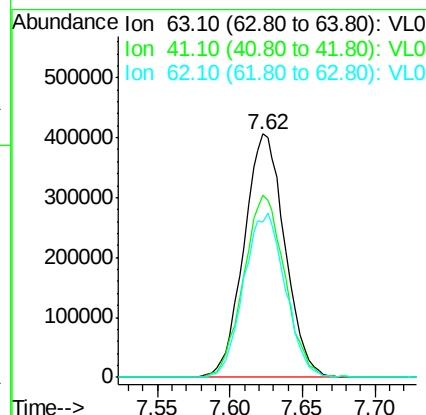
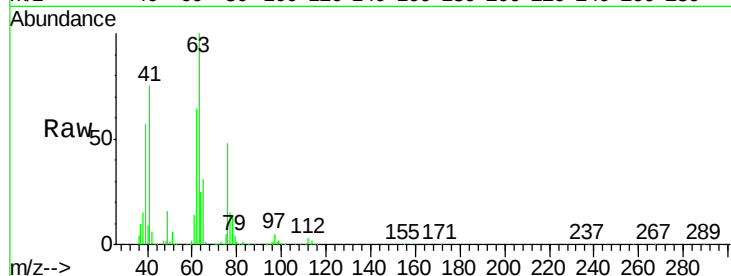
ClientSampleId :

ICVVL022620

Tot Ion:	63	Resp:	797744
Ion	Ratio	Lower	Upper
63	100		
41	74.9	60.2	90.4
62	63.5	56.3	84.5

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



#40

1,4-Dioxane

Concen: 10.803 ppbv

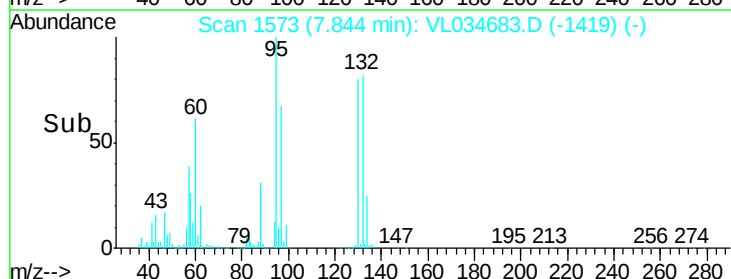
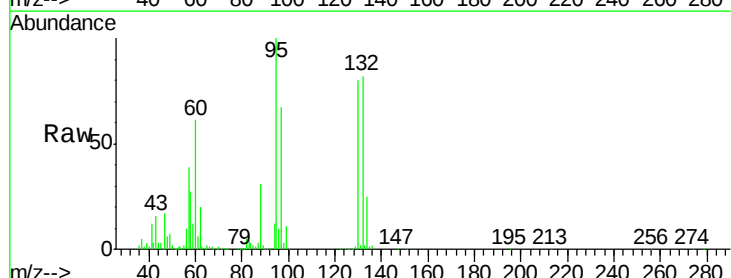
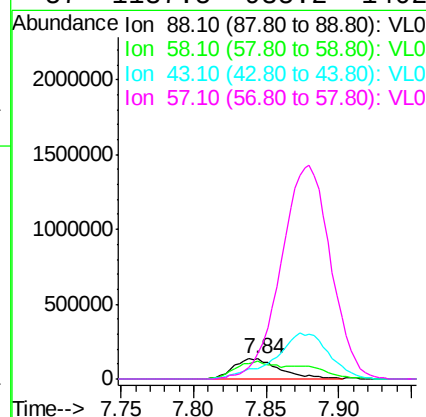
RT: 7.84 min Scan# 1573

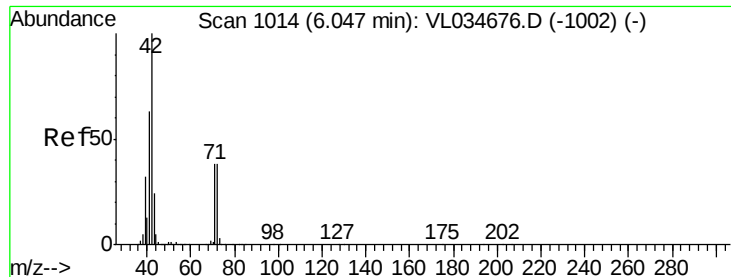
Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion:	88	Resp:	299945
Ion	Ratio	Lower	Upper
88	100		
58	134.4	104.6	156.8
43	265.3	212.9	319.3
57	1137.5	935.2	1402.8





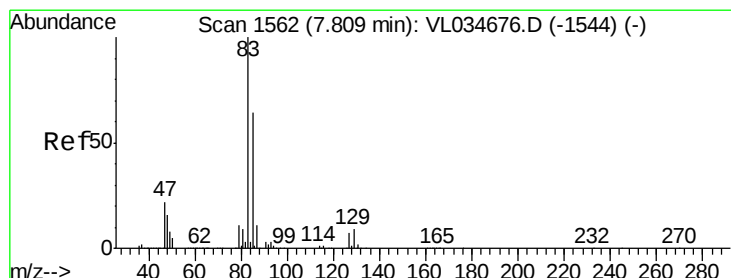
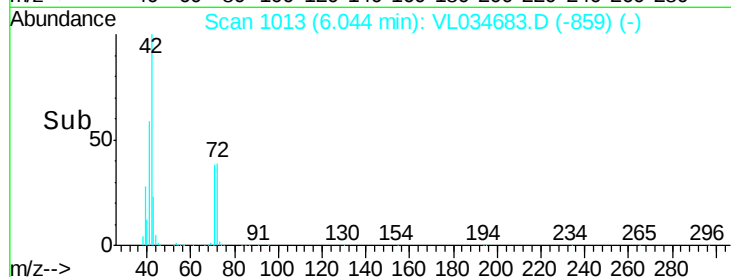
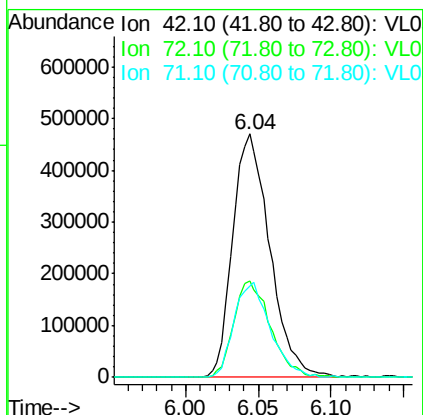
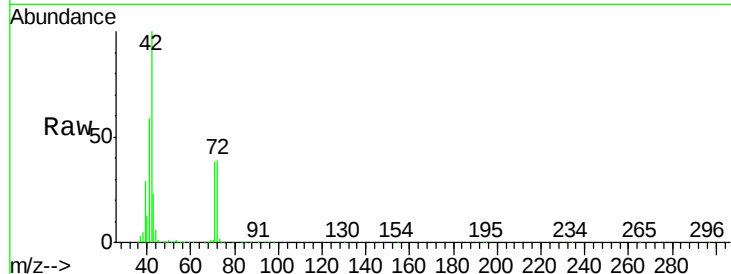
#41
Tetrahydrofuran
Concen: 10.596 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.7	47.5
71	38.4	30.7	46.1

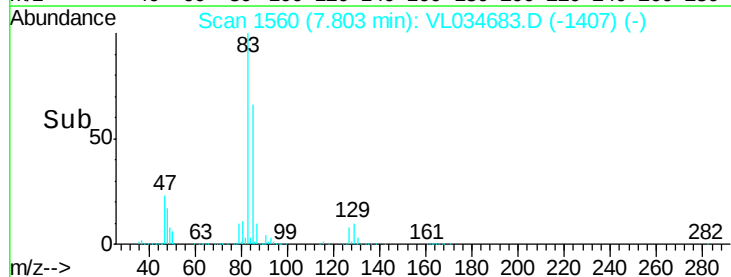
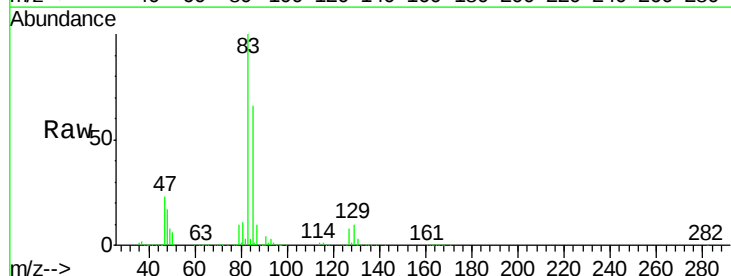
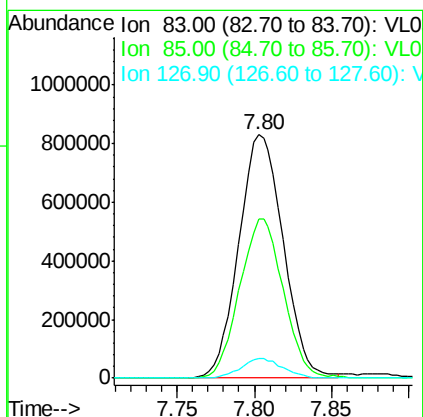
Manual Integrations
APPROVED

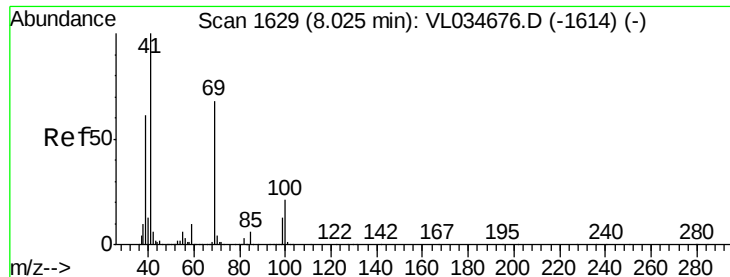
MMDadoda
2/27/2020 5:19:40 PM



#42
Bromodichloromethane
Concen: 9.784 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.1	76.7
127	8.3	5.8	8.8





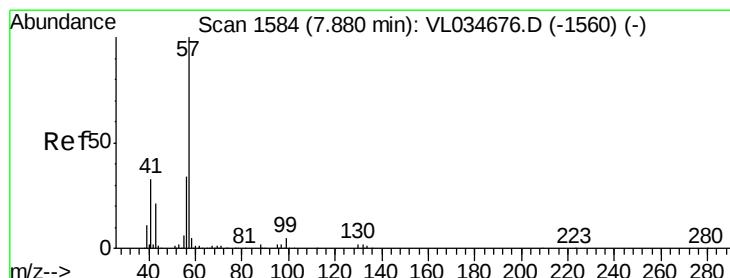
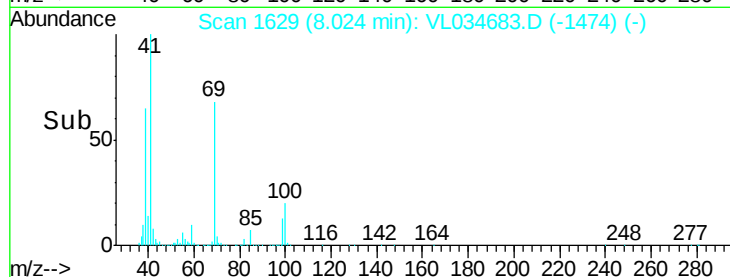
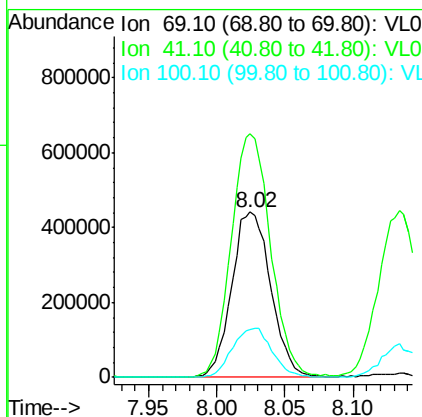
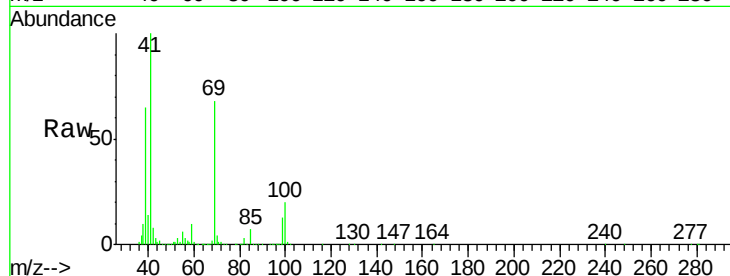
#43
Methvl Methacrvlate
Concen: 10.148 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.5	118.2	177.2
100	30.5	24.2	36.2

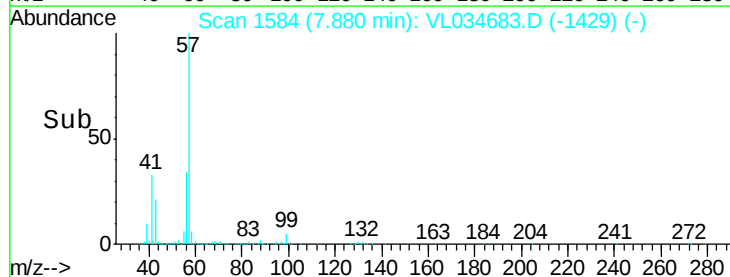
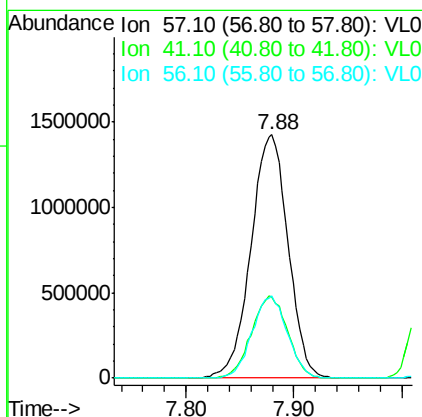
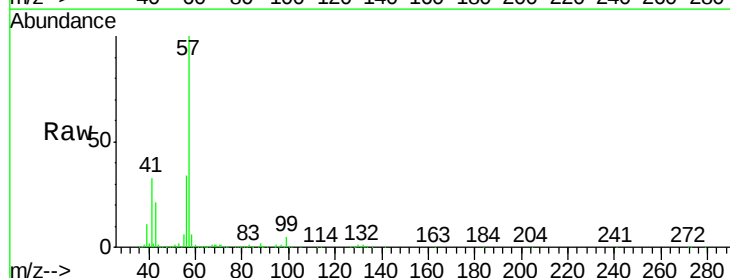
Manual Integrations
APPROVED

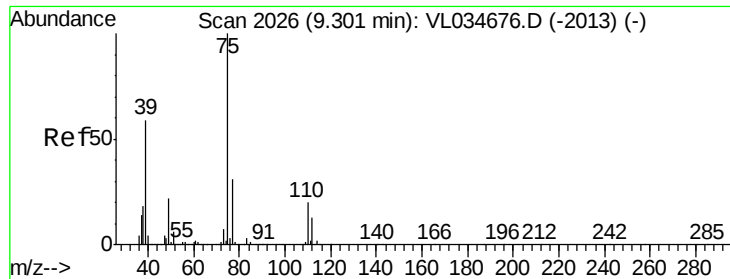
MMDadoda
2/27/2020 5:19:40 PM



#44
2,2,4-Trimethylpentane
Concen: 9.503 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.8	26.0	39.0
56	32.0	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 11.508 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 75 Resp: 1083881

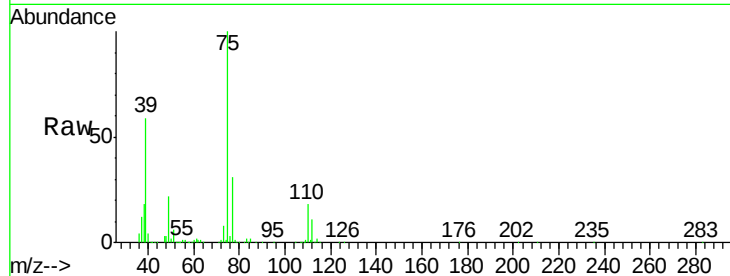
Ion Ratio Lower Upper

75 100

77 30.7 25.3 37.9

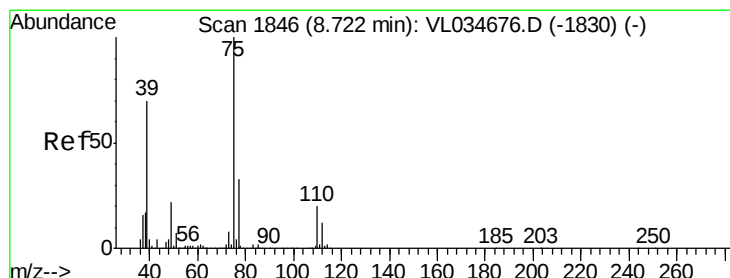
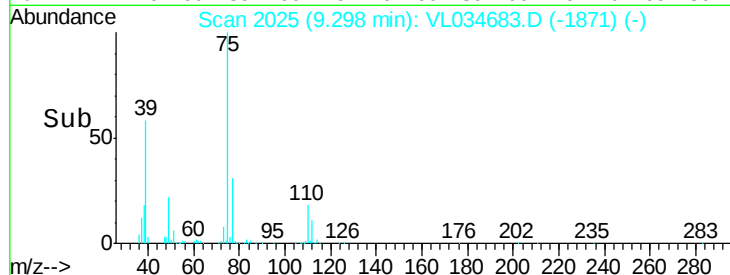
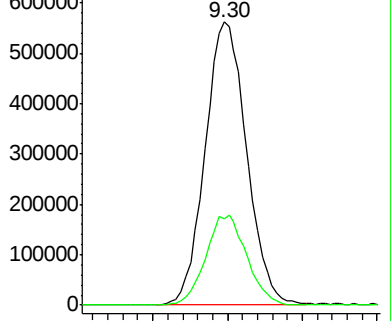
Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.177 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

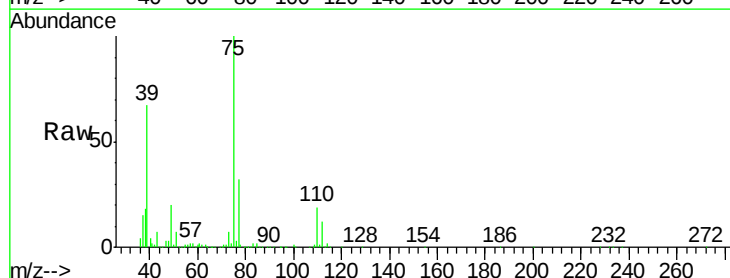
Tgt Ion: 75 Resp: 1262564

Ion Ratio Lower Upper

75 100

39 67.1 55.7 83.5

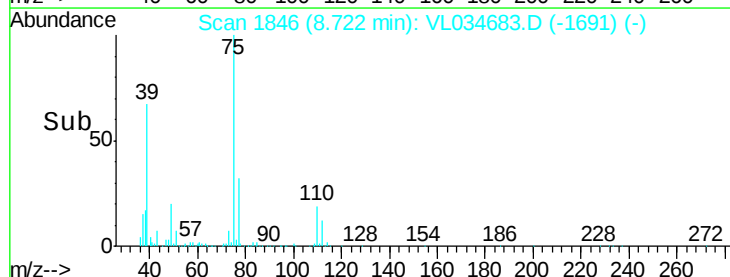
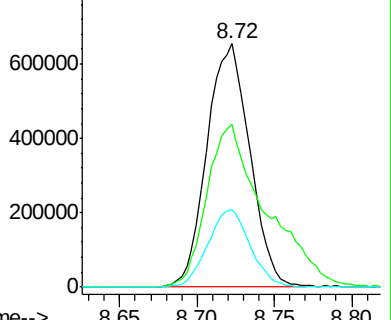
77 31.7 26.3 39.5

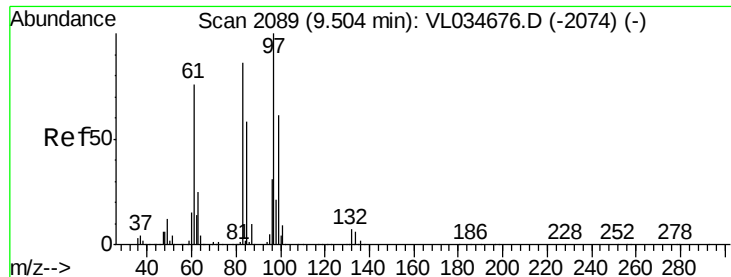


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





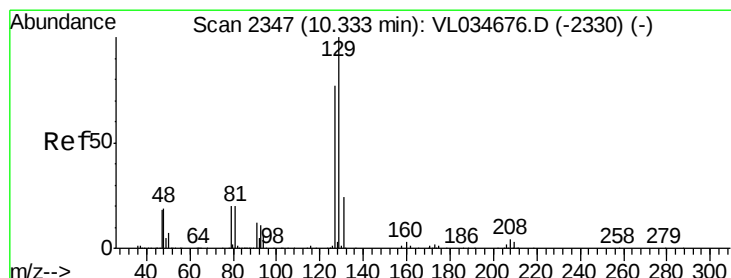
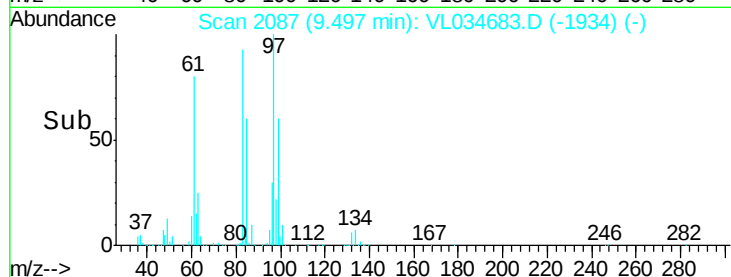
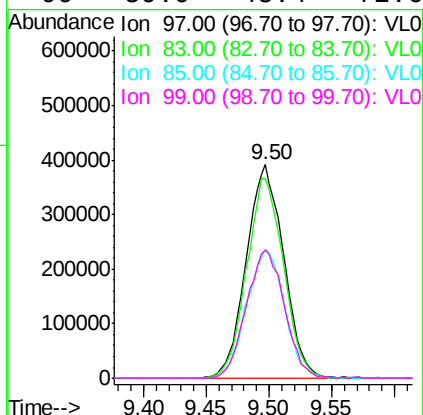
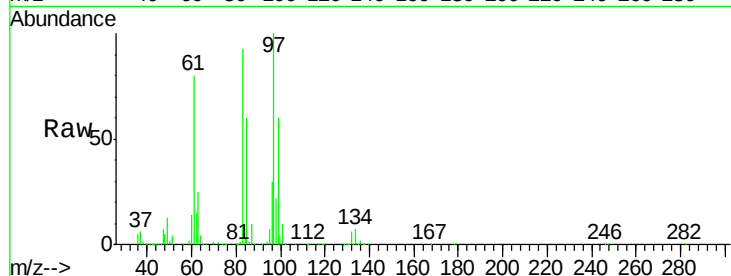
#47
 1,1,2-Trichloroethane
 Concen: 9.703 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	93.3	69.4	104.0	
85	60.4	46.4	69.6	
99	59.9	48.4	72.6	

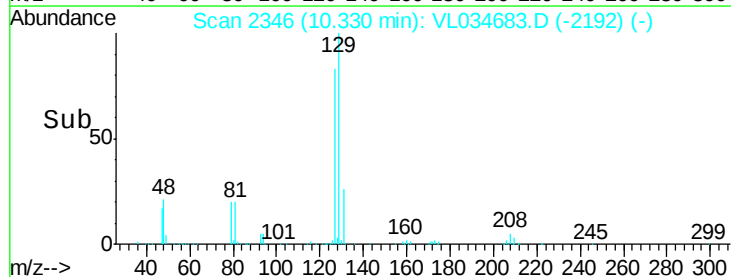
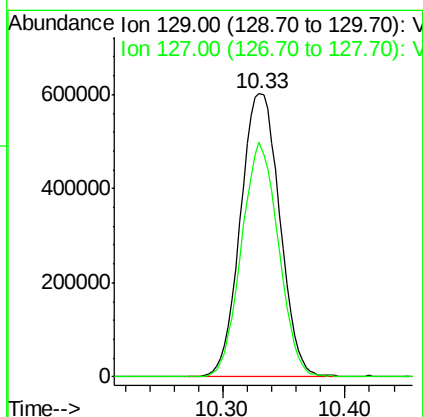
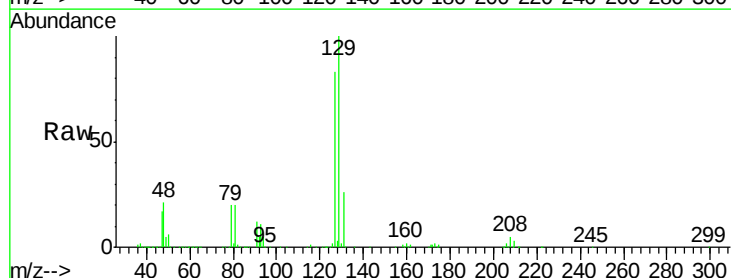
Manual Integrations
 APPROVED

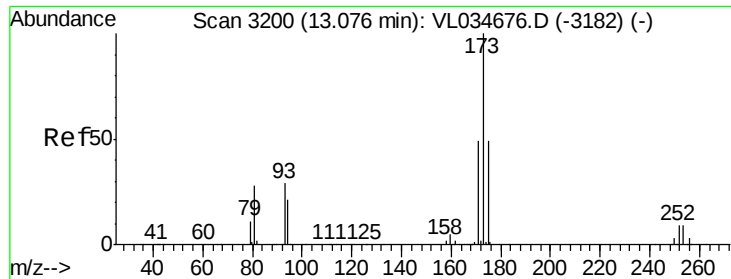
MMDadoda
 2/27/2020 5:19:40 PM



#48
 Dibromochloromethane
 Concen: 10.261 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.3	117.8	





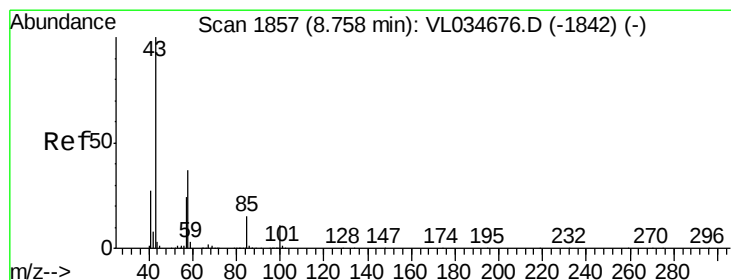
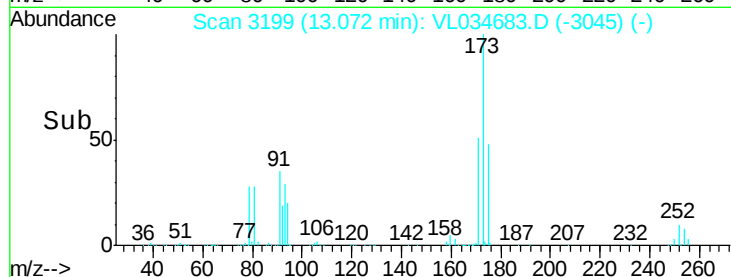
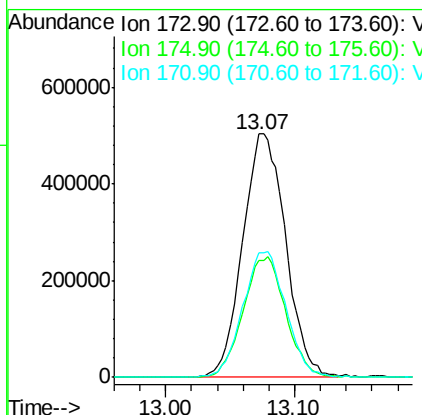
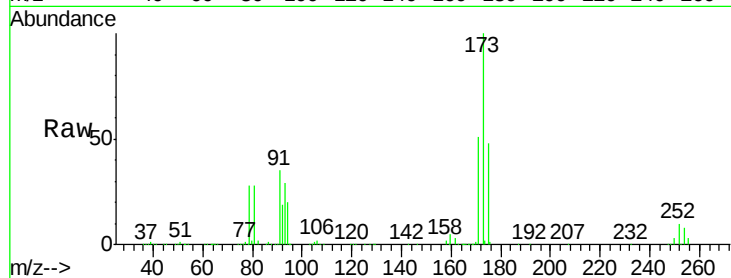
#49
Bromoform
Concen: 10.313 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion:173 Resp: 1164614
Ion Ratio Lower Upper
173 100
175 49.7 38.6 58.0
171 52.1 41.5 62.3

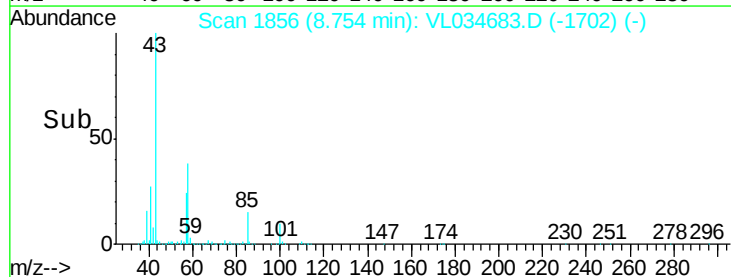
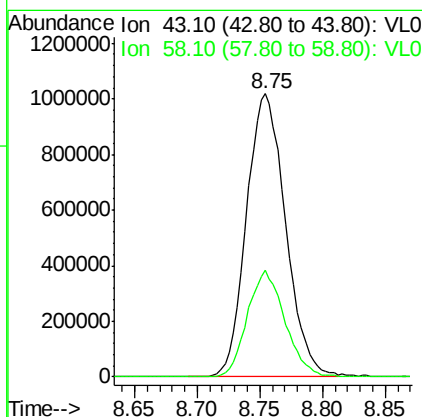
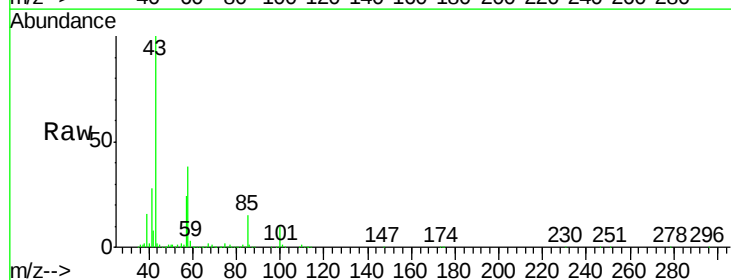
Manual Integrations
APPROVED

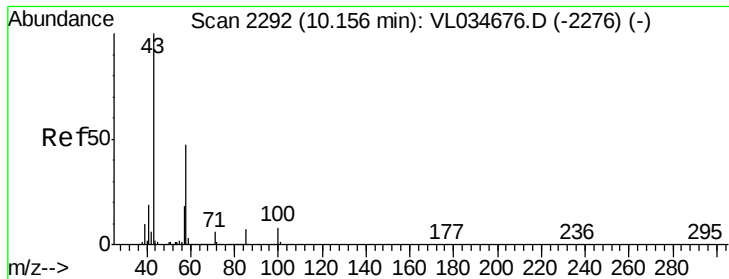
MMDadoda
2/27/2020 5:19:40 PM



#50
4-Methyl-2-Pentanone
Concen: 10.385 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion: 43 Resp: 2199704
Ion Ratio Lower Upper
43 100
58 36.1 29.0 43.6





#51

2-Hexanone

Concen: 11.049 ppbv

RT: 10.15 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 43 Resp: 1841860

Ion Ratio Lower Upper

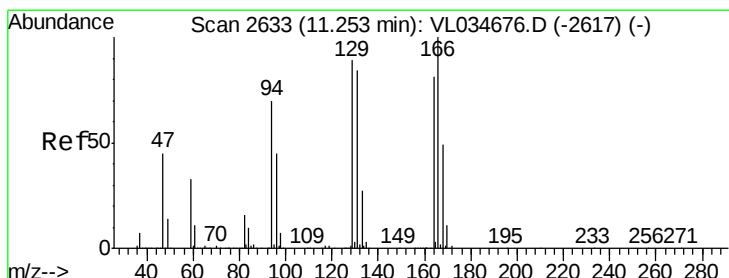
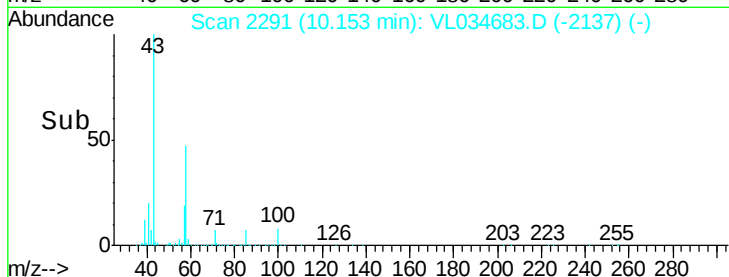
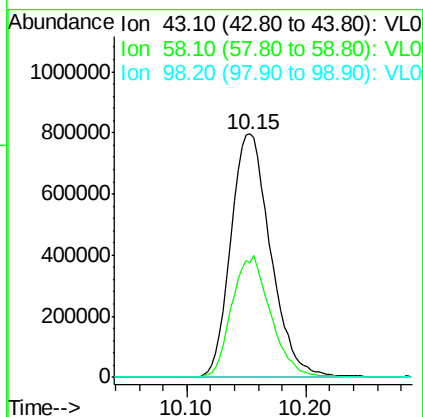
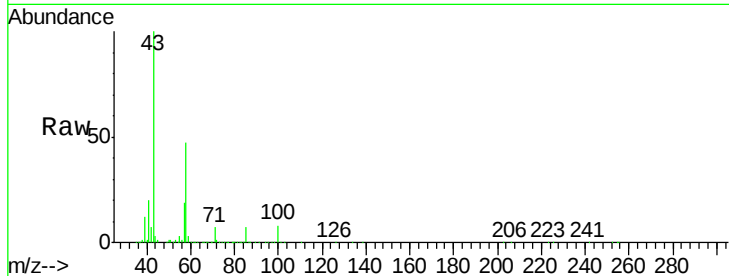
43 100

58 48.9 39.4 59.0

98 0.2 0.2 0.2

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



#52

Tetrachloroethene

Concen: 9.037 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion: 164 Resp: 679755

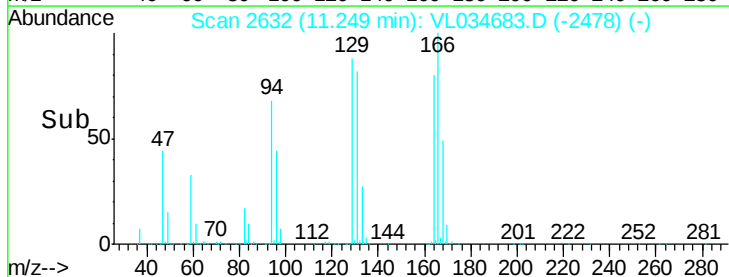
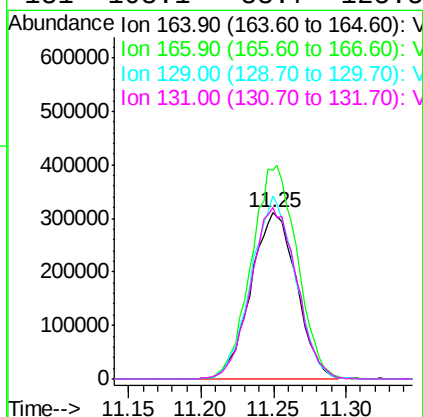
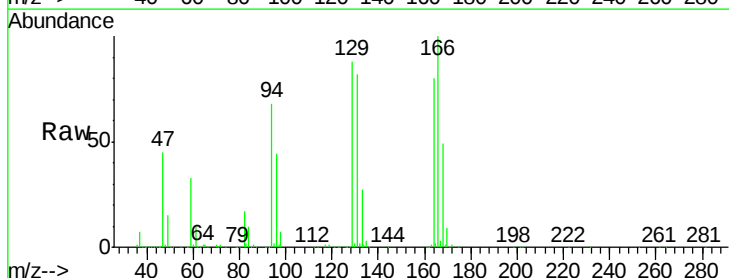
Ion Ratio Lower Upper

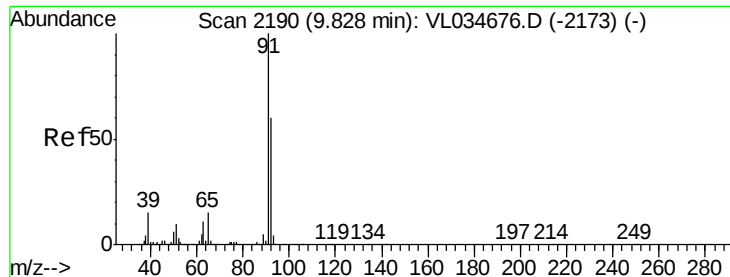
164 100

166 125.1 99.2 148.8

129 109.9 88.0 132.0

131 103.1 83.7 125.5





#53

Toluene

Concen: 10.399 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 91 Resp: 2269642

Ion Ratio Lower Upper

91 100

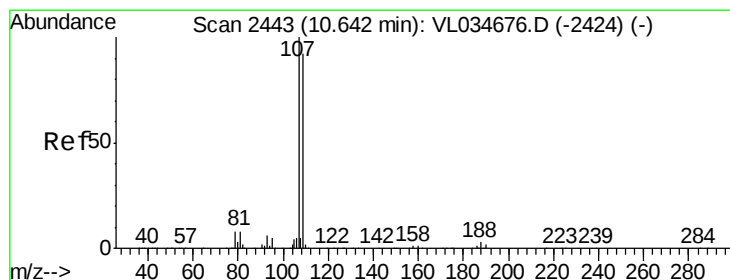
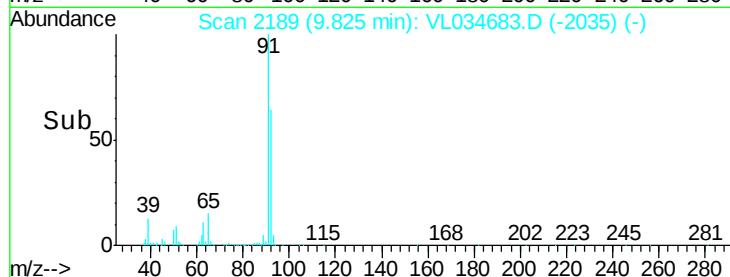
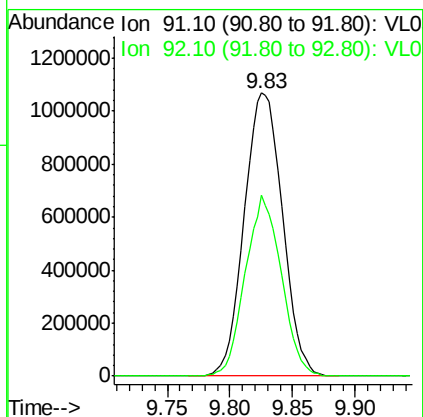
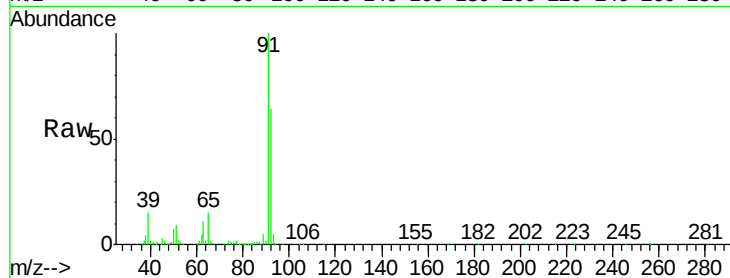
92 60.0 48.5 72.7

Manual Integrations

APPROVED

MMDadoda

2/27/2020 5:19:40 PM



#54

1,2-Dibromoethane

Concen: 9.957 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VL034683.D

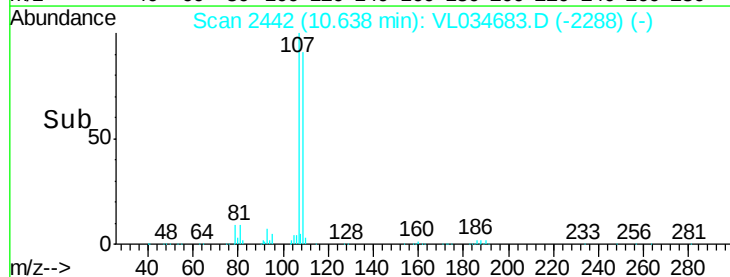
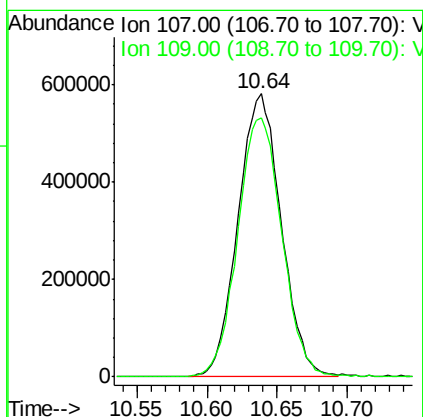
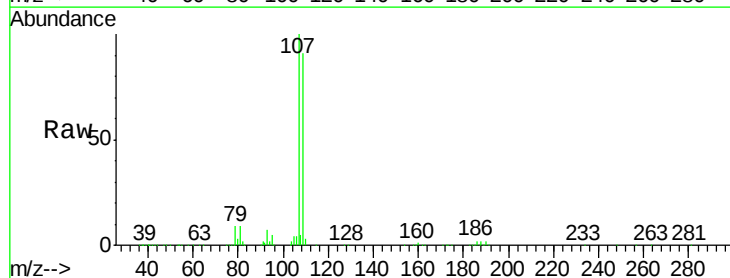
Acq: 26 Feb 2020 6:57

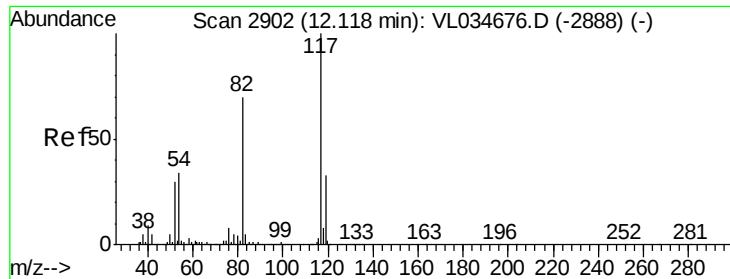
Tgt Ion: 107 Resp: 1244163

Ion Ratio Lower Upper

107 100

109 91.4 73.9 110.9





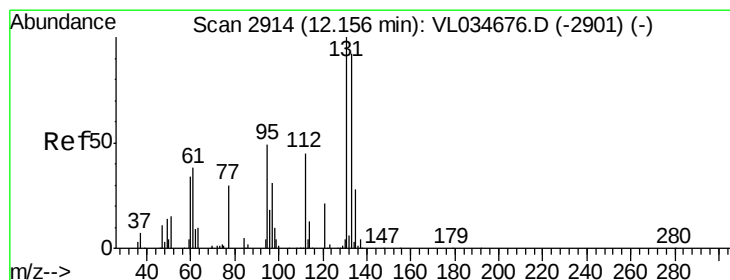
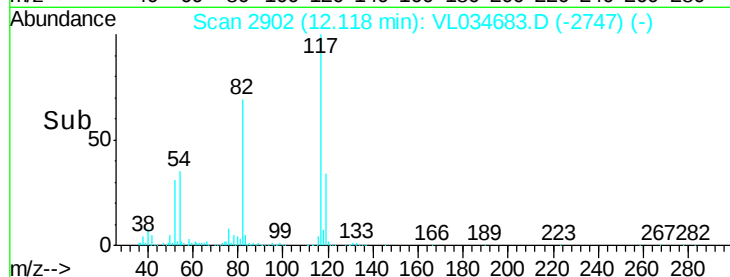
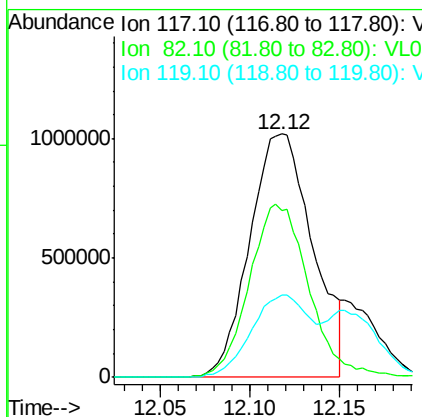
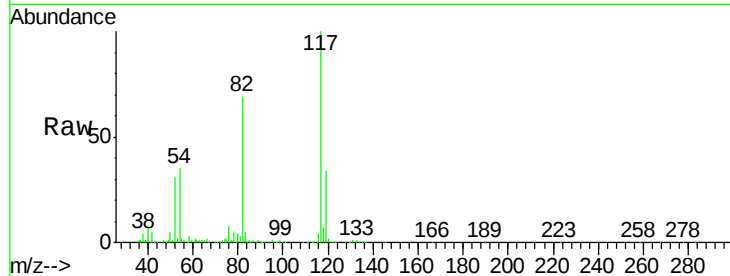
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion:117 Resp: 2493760
Ion Ratio Lower Upper
117 100
82 67.4 54.1 81.1
119 54.4 27.6 41.4#

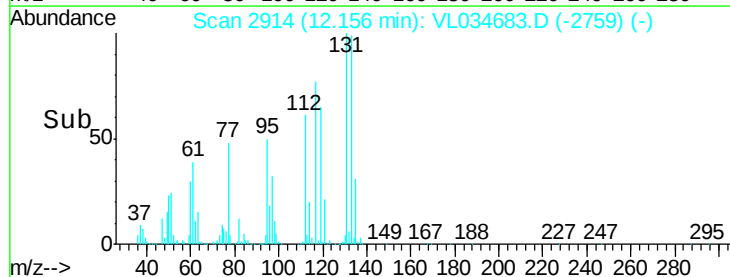
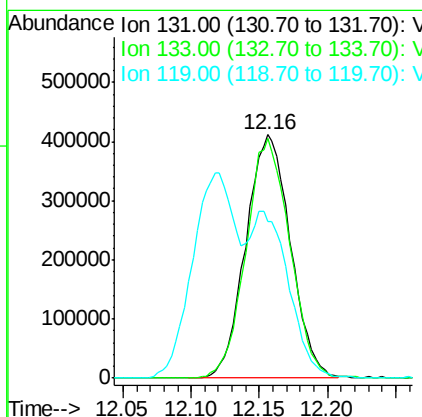
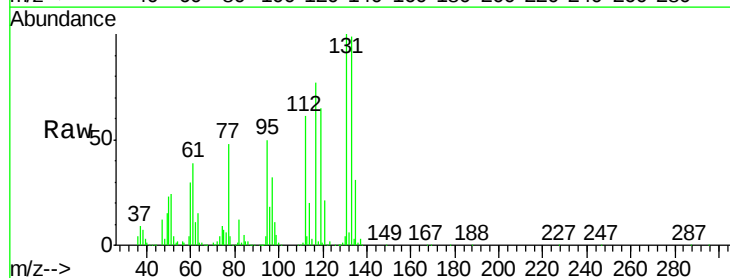
Manual Integrations
APPROVED

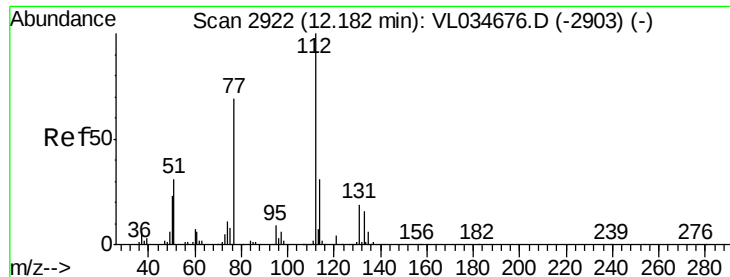
MMDadoda
2/27/2020 5:19:40 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.787 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion:131 Resp: 933210
Ion Ratio Lower Upper
131 100
133 96.7 76.6 114.8
119 145.1 51.3 76.9#





#57

Chlorobenzene

Concen: 8.983 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 112 Resp: 1655794

Ion Ratio Lower Upper

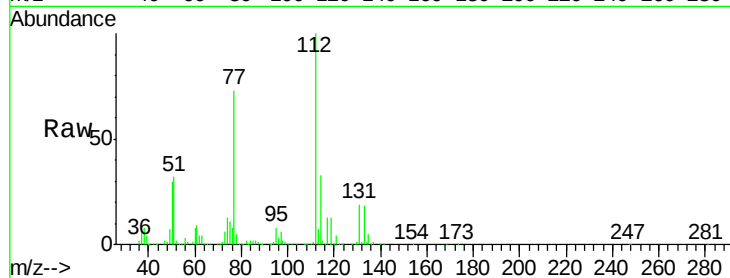
112 100

77 72.4 56.5 84.7

114 33.0 28.1 34.3

Manual Integrations
APPROVED

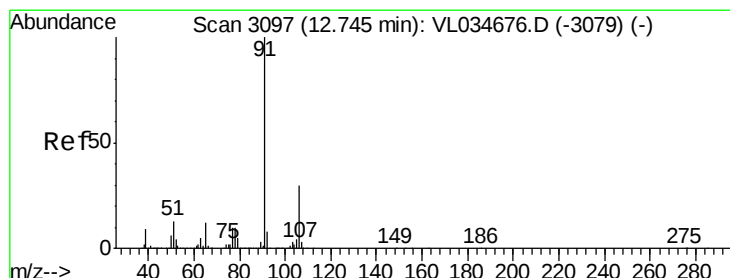
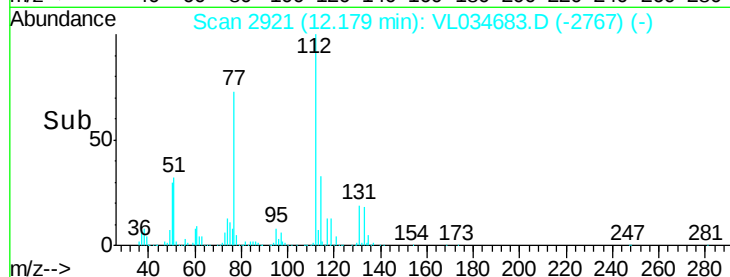
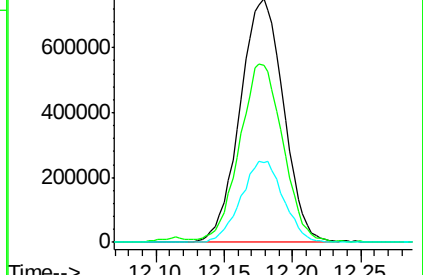
MMDadoda
2/27/2020 5:19:40 PM



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: 10.031 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.01 min

Lab File: VL034683.D

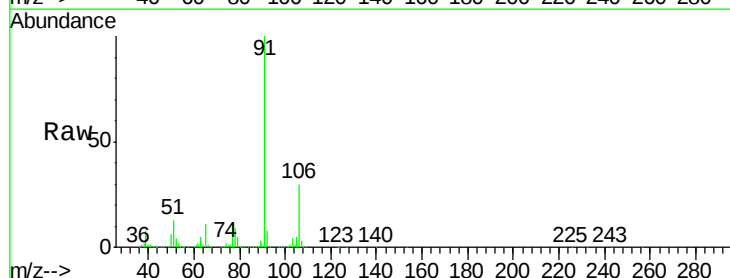
Acq: 26 Feb 2020 6:57

Tgt Ion: 91 Resp: 3026531

Ion Ratio Lower Upper

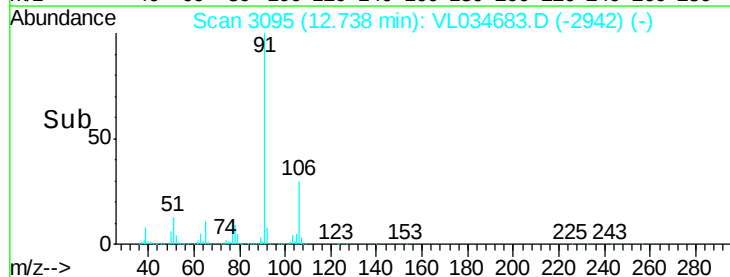
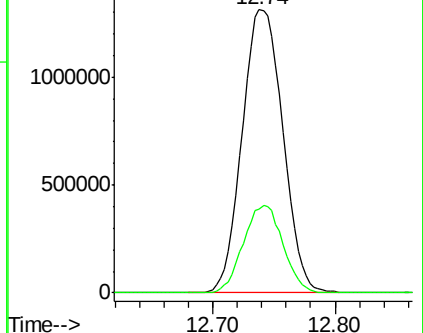
91 100

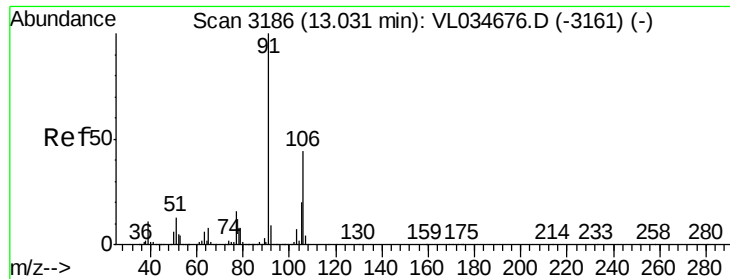
106 29.7 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





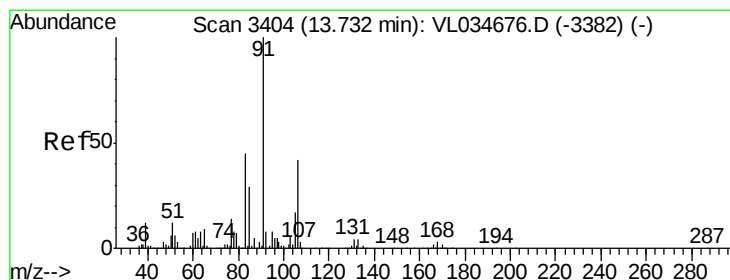
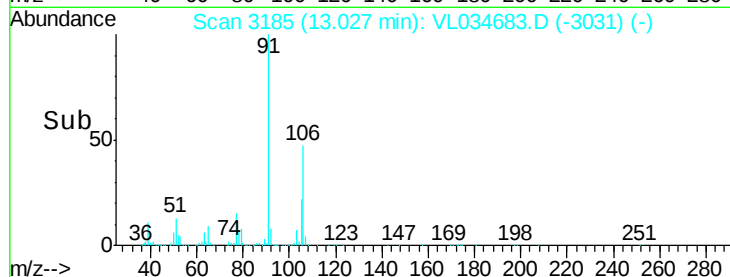
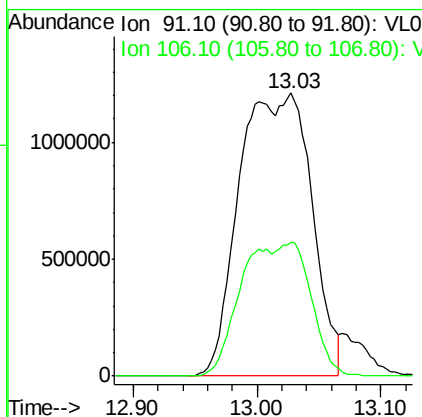
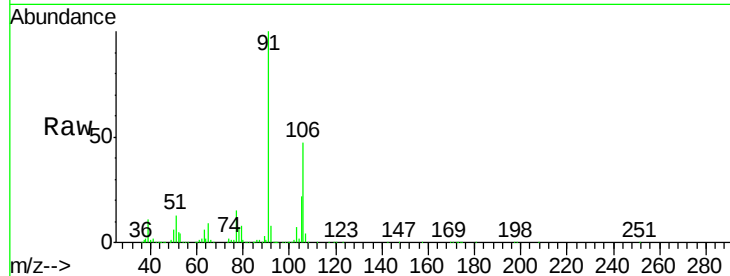
#59
m/p-Xylene
Concen: 18.646 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion: 91 Resp: 4906781
Ion Ratio Lower Upper
91 100
106 45.4 35.6 53.4

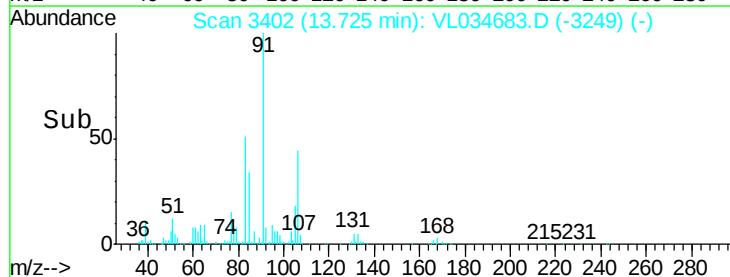
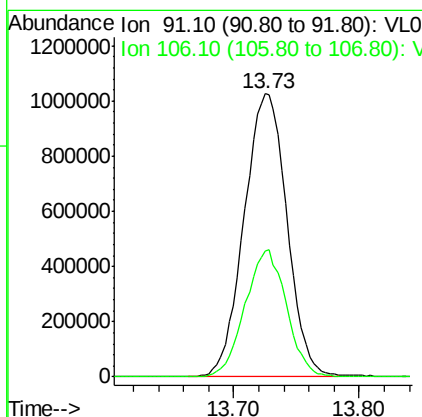
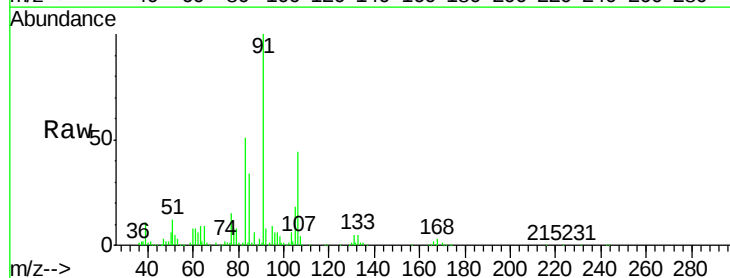
Manual Integrations
APPROVED

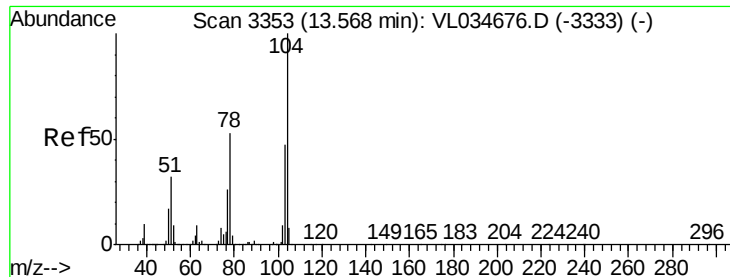
MMDadoda
2/27/2020 5:19:40 PM



#60
o-Xylene
Concen: 9.326 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion: 91 Resp: 2435219
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.5





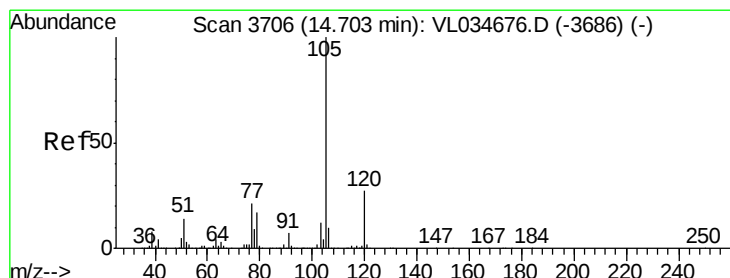
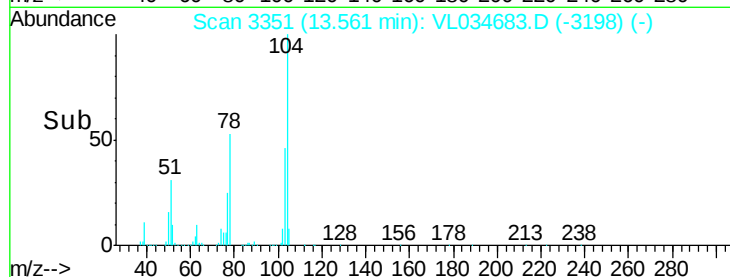
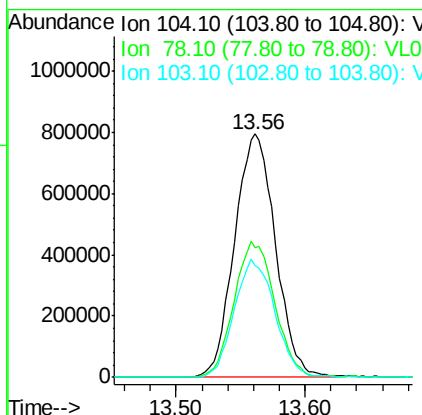
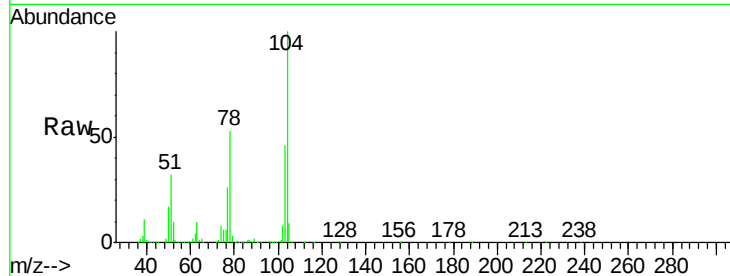
#61
Stvrene
Concen: 10.414 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.3	44.2	66.4
103	48.6	37.4	56.0

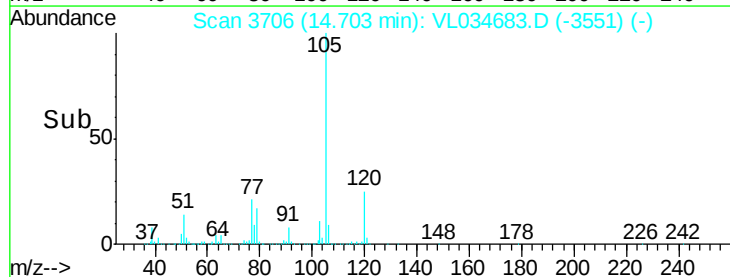
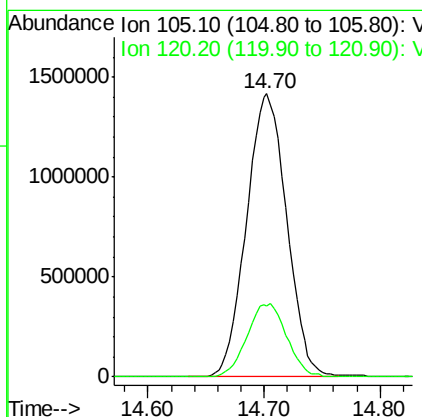
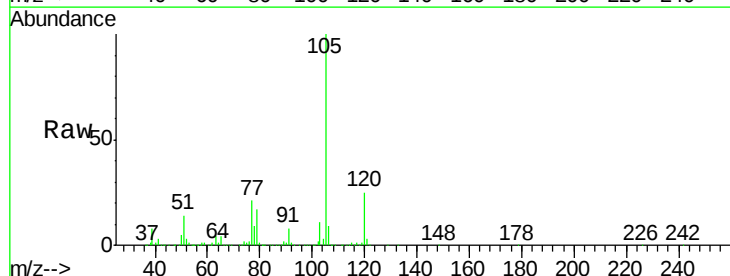
Manual Integrations
APPROVED

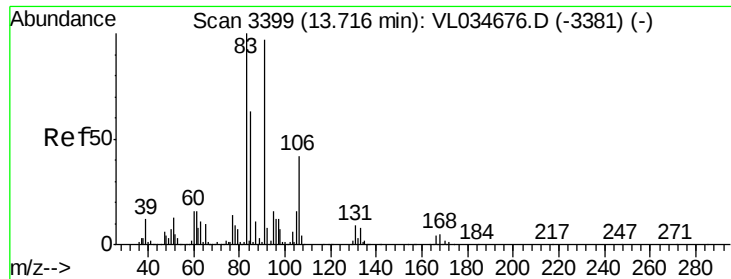
MMDadoda
2/27/2020 5:19:40 PM



#62
Isopropylbenzene
Concen: 8.966 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.2	30.4





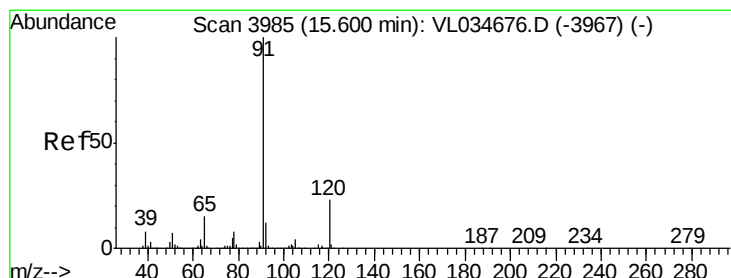
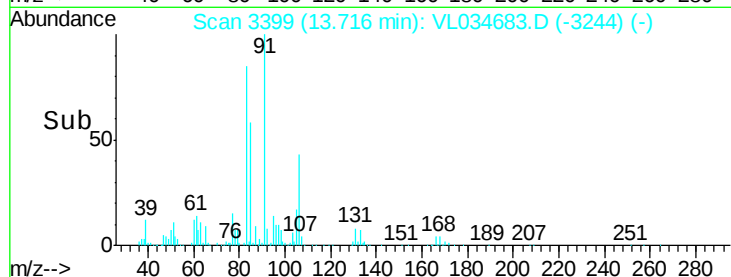
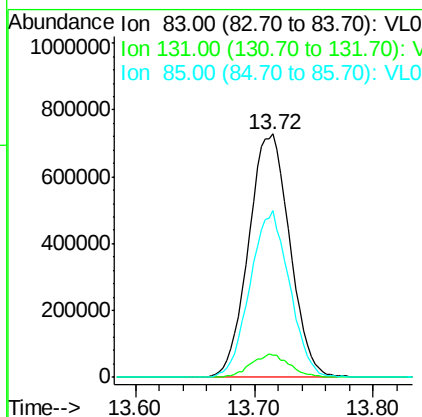
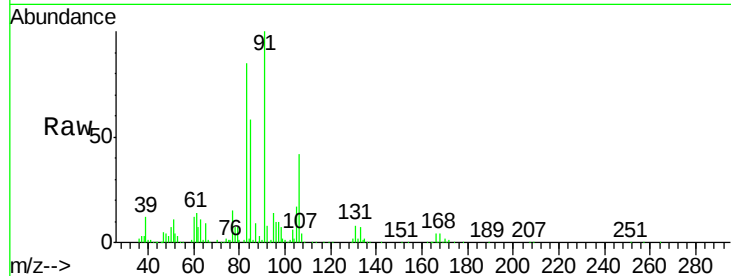
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.570 ppbv
 RT: 13.72 min Scan# 3399
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	83	Resp	1744161
Ion Ratio	100	Lower	Upper
83	100		
131	9.0	4.4	13.2
85	65.8	32.5	97.5

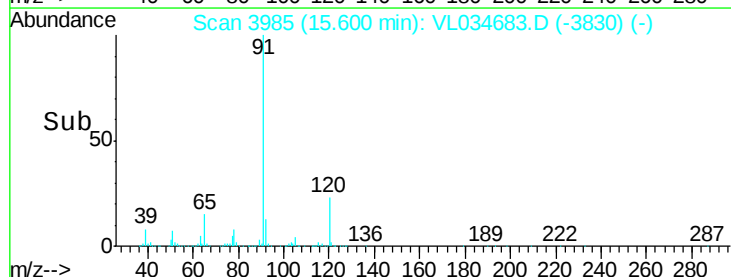
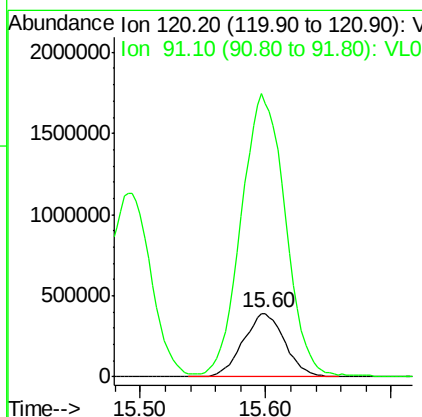
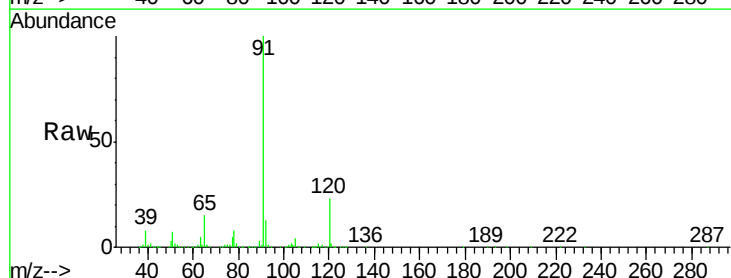
Manual Integrations
 APPROVED

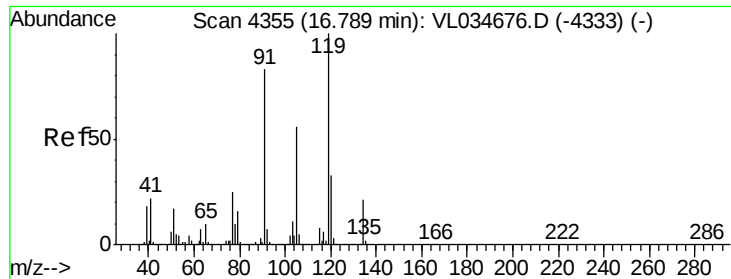
MMDadoda
 2/27/2020 5:19:40 PM



#64
 n-propylbenzene
 Concen: 9.186 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	120	Resp	902076
Ion Ratio	100	Lower	Upper
120	100		
91	476.1	369.8	554.8





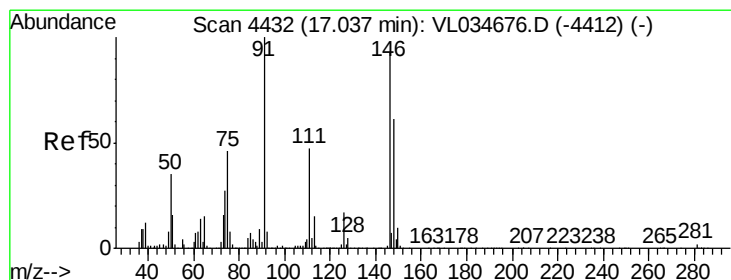
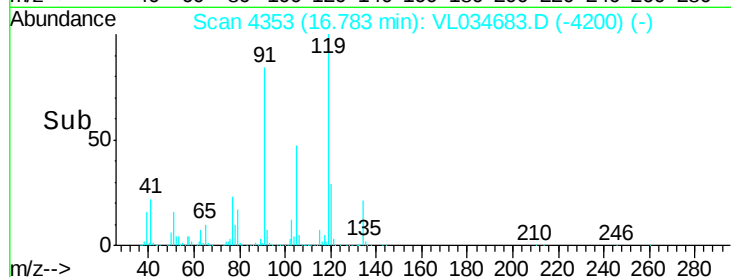
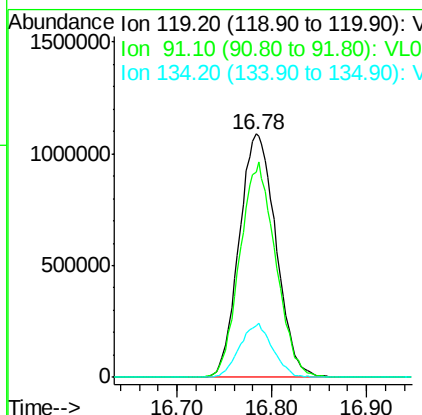
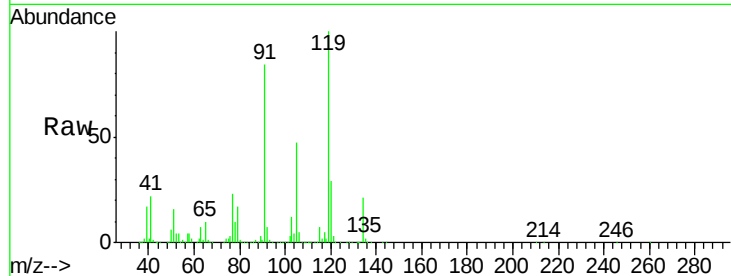
#65
tert-Butylbenzene
Concen: 8.926 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
119	100		
91	86.1	69.1	103.7
134	20.0	15.8	23.8

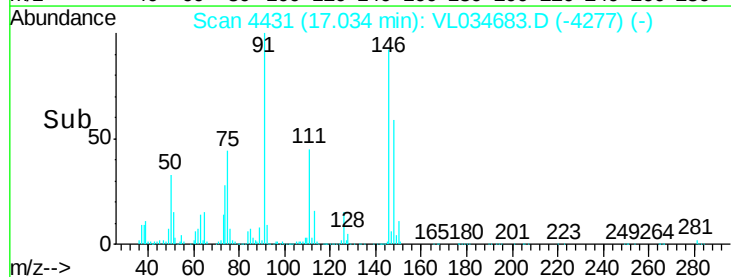
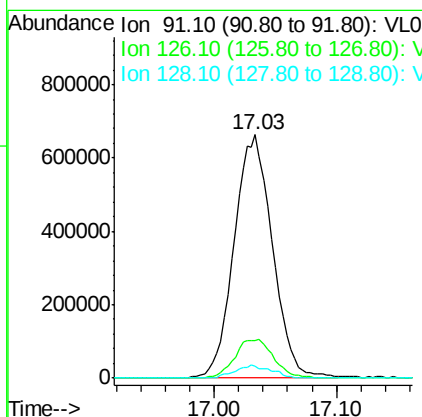
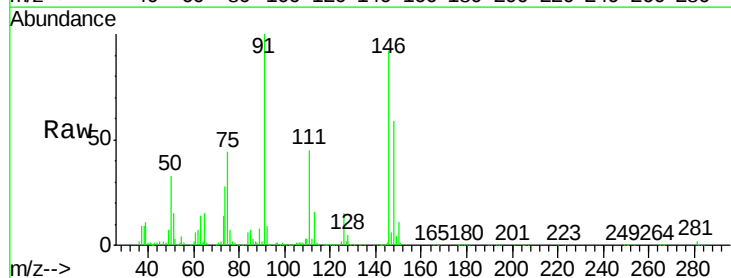
Manual Integrations
APPROVED

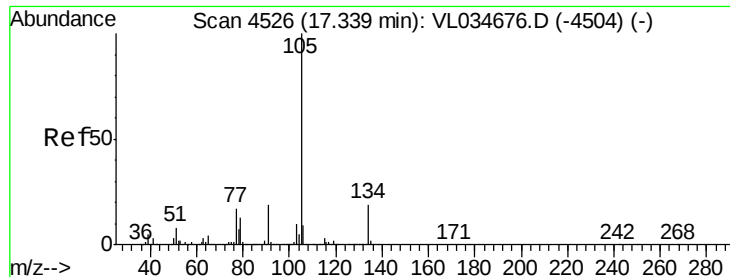
MMDadoda
2/27/2020 5:19:40 PM



#66
Benzyl Chloride
Concen: 11.688 ppbv
RT: 17.03 min Scan# 4431
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.3	13.5	20.3
128	5.1	4.2	6.4





#67

sec-Butylbenzene

Concen: 8.952 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.01 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 105 Resp: 4237116

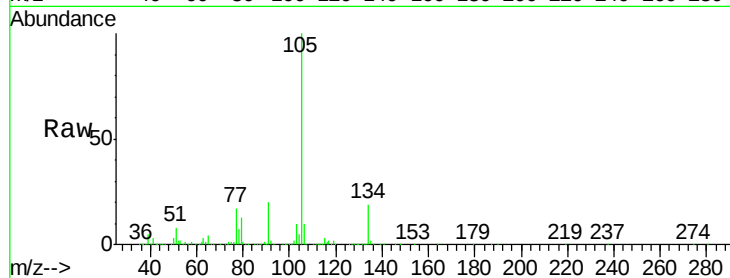
Ion Ratio Lower Upper

105 100

134 18.2 14.8 22.2

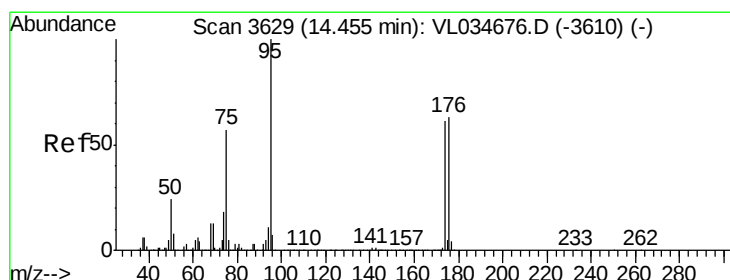
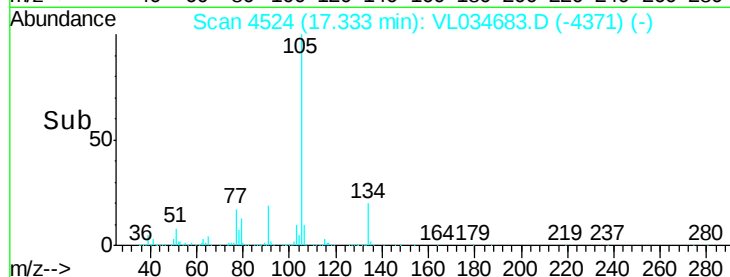
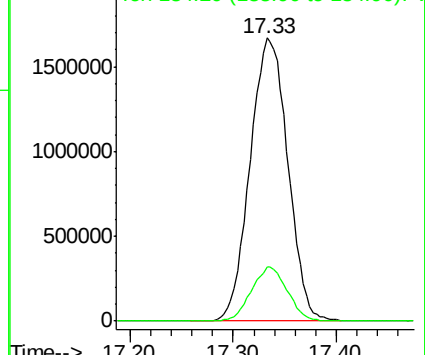
Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 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: 9.699 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

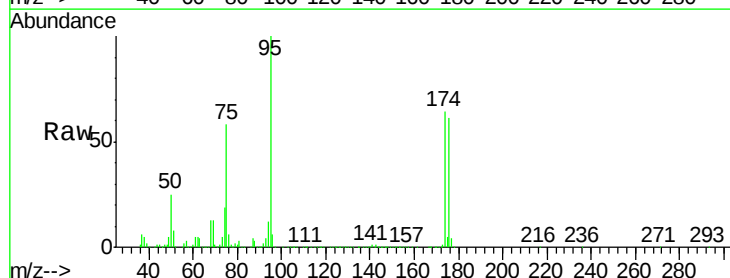
Tgt Ion: 95 Resp: 1983329

Ion Ratio Lower Upper

95 100

174 63.6 50.7 76.1

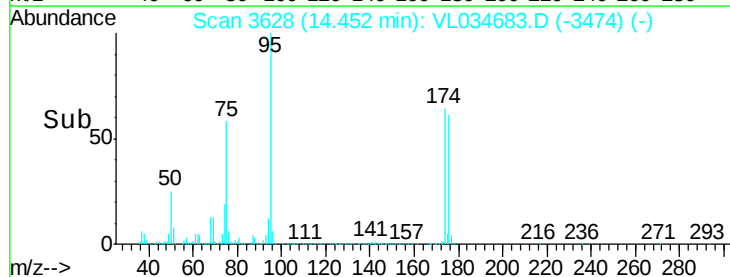
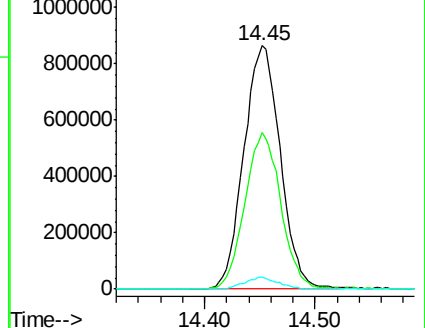
175 4.6 3.9 5.9

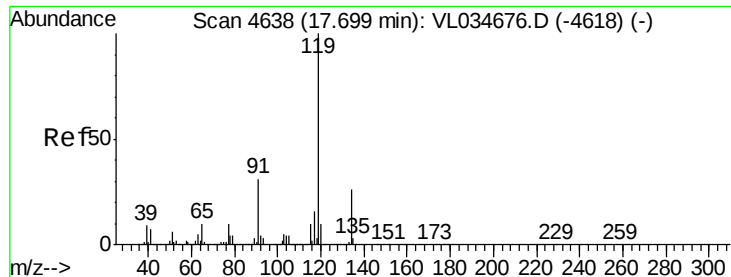


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





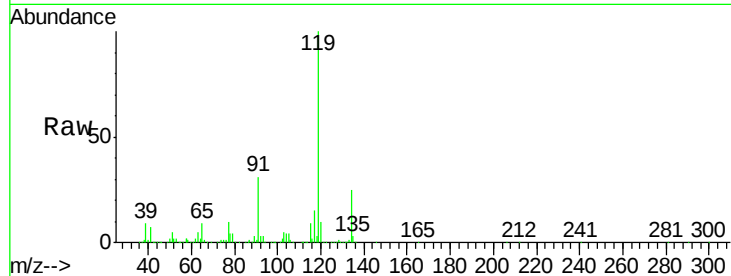
#69
 p-Isopropyltoluene
 Concen: 8.887 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.01 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

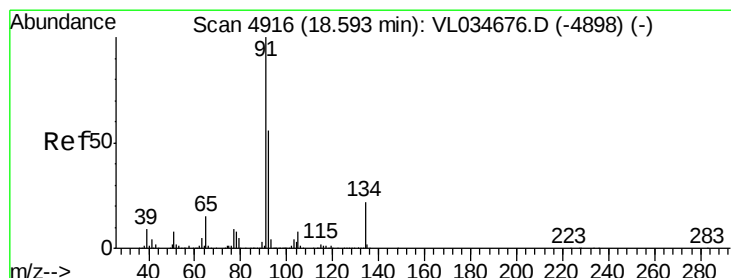
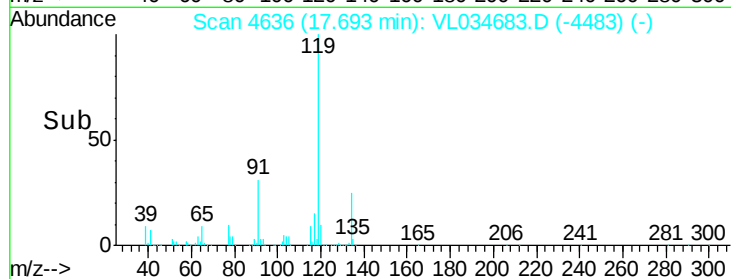
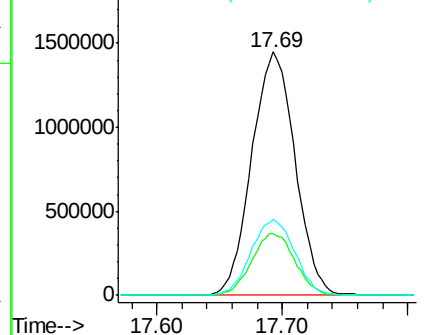
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	31.6	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:40 PM

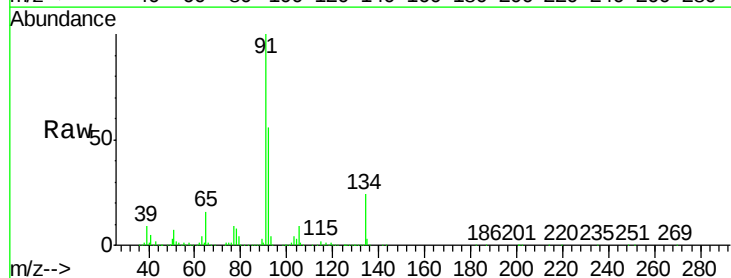


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

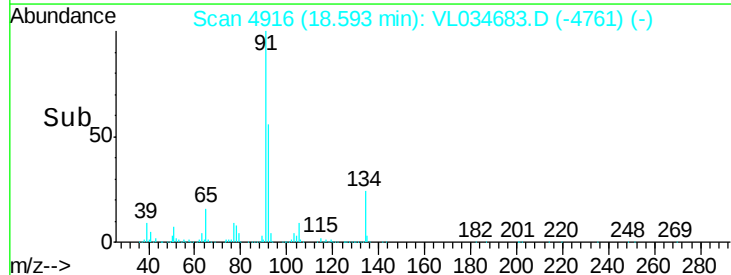
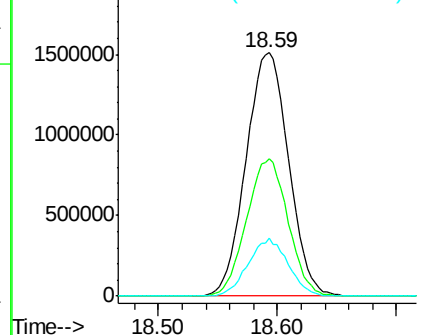


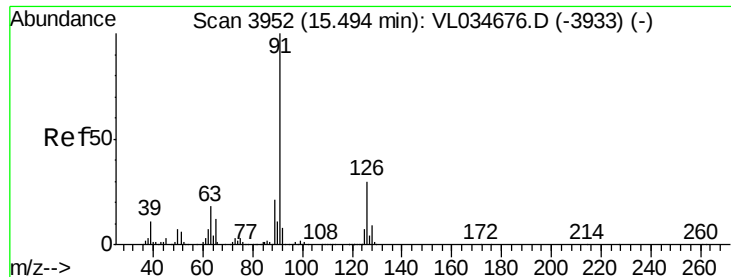
#70
 n-Butylbenzene
 Concen: 8.811 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.8	65.6
134	22.1	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: 9.138 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion: 91 Resp: 2695989

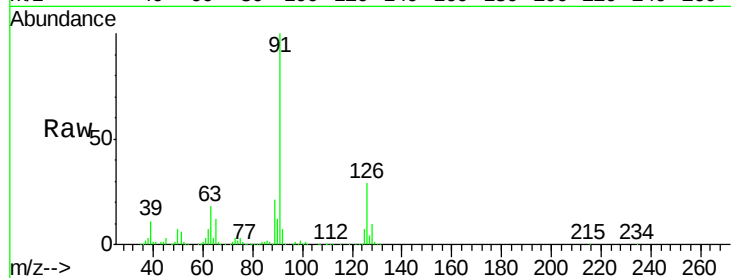
Ion Ratio Lower Upper

91 100

126 29.5 11.8 47.2

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

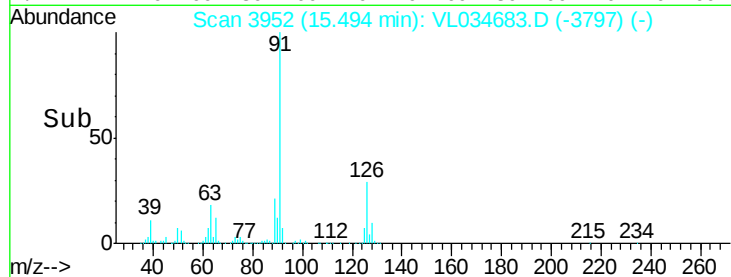
1500000

1000000

500000

0

Time-->



Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

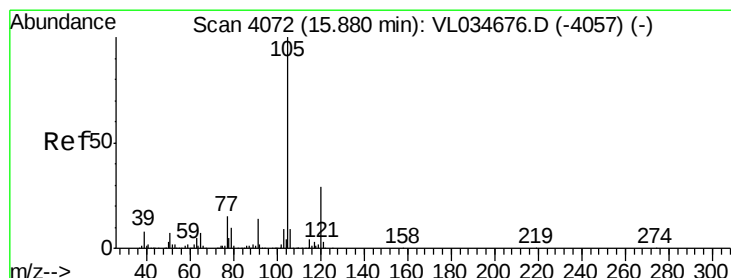
1500000

1000000

500000

0

Time-->



#72

4-Ethyltoluene

Concen: 9.764 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion:105 Resp: 2837920

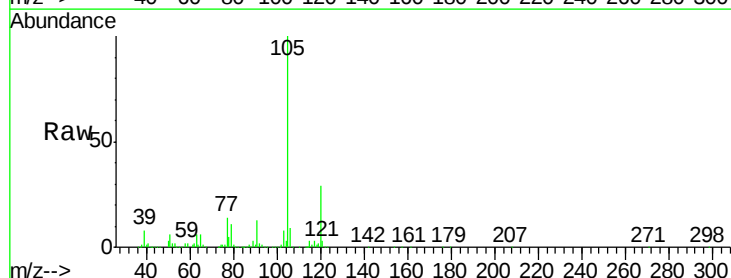
Ion Ratio Lower Upper

105 100

120 29.2 23.7 35.5

91 13.8 10.9 16.3

77 14.9 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

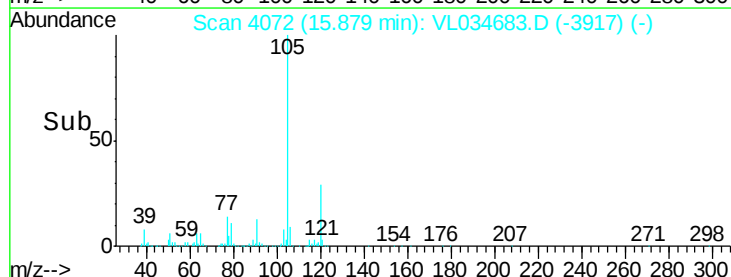
1500000

1000000

500000

0

Time-->



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

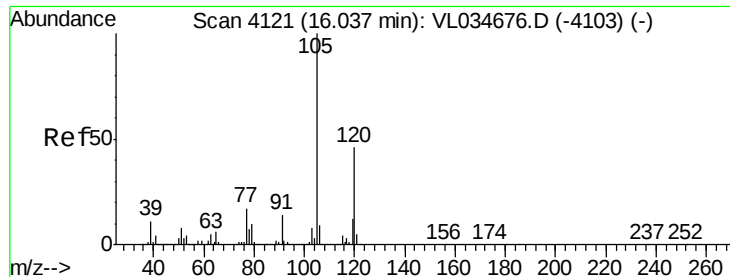
1500000

1000000

500000

0

Time-->



#73

1,3,5-Trimethylbenzene

Concen: 9.482 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion:105 Resp: 2651149

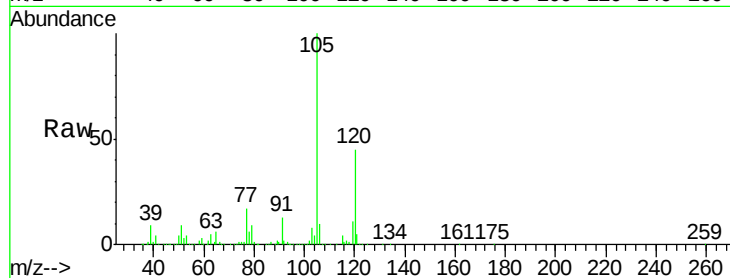
Ion Ratio Lower Upper

105 100

120 45.2 37.1 55.7

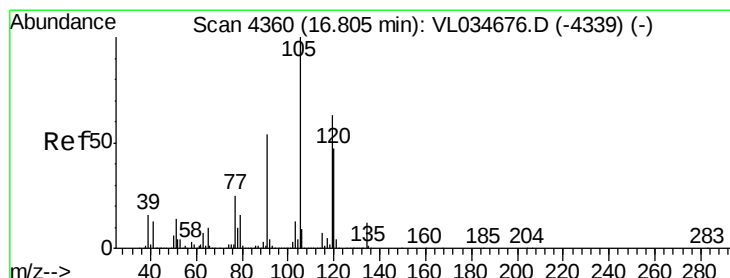
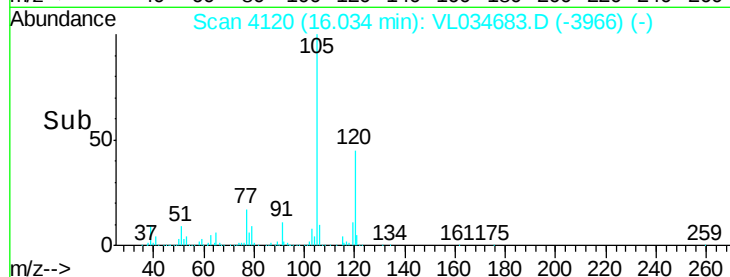
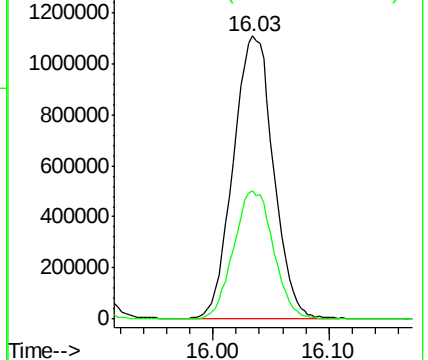
Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 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: 8.876 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Tgt Ion:105 Resp: 2740782

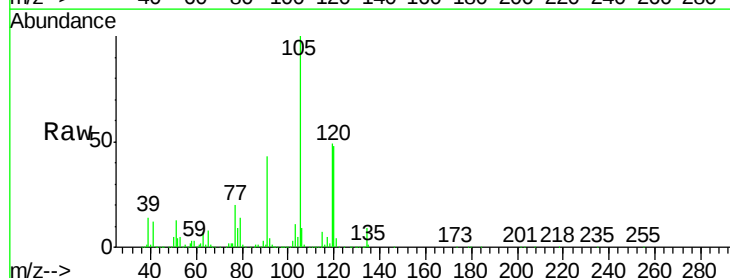
Ion Ratio Lower Upper

105 100

120 47.6 37.9 56.9

91 42.6 43.9 65.9#

77 20.1 20.3 30.5#

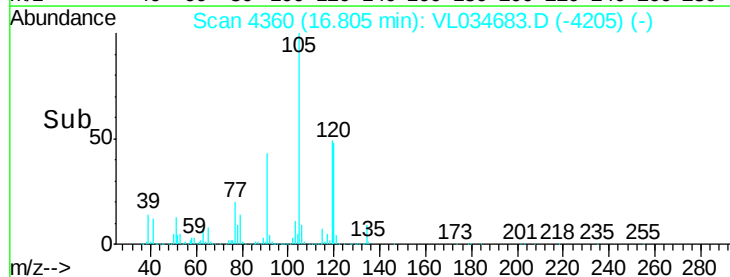
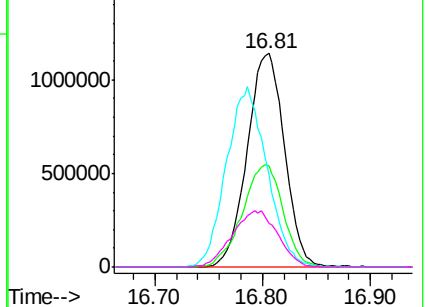


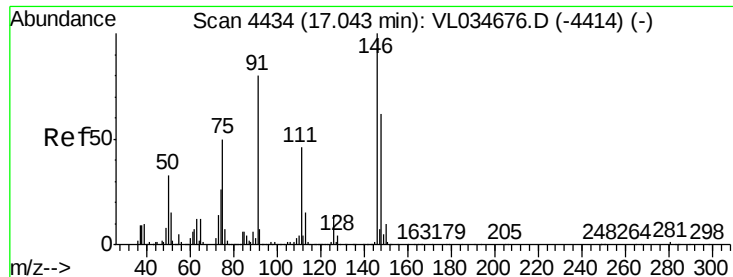
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.789 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022620

Tot Ion:146 Resp: 1566619

Ion Ratio Lower Upper

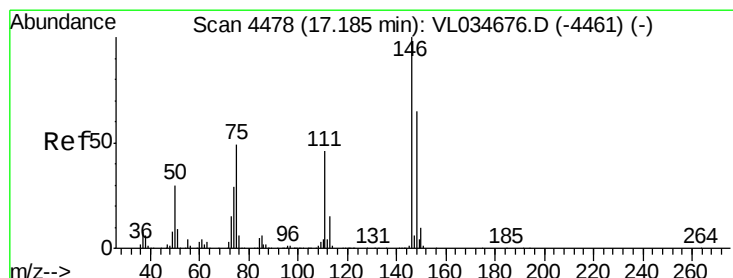
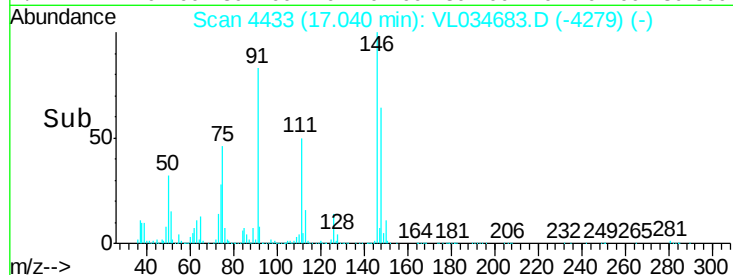
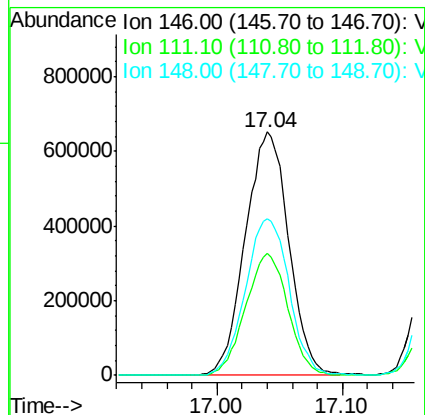
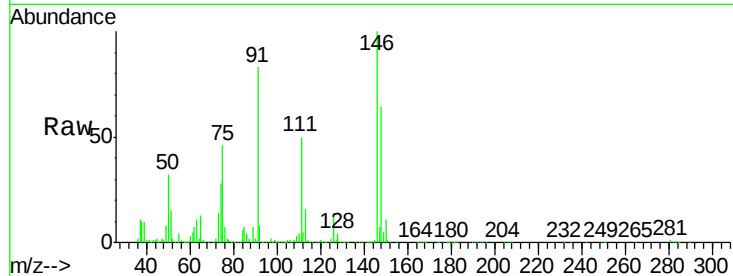
146 100

111 49.0 24.4 73.2

148 65.0 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
2/27/2020 5:19:40 PM



#76

1,4-Dichlorobenzene

Concen: 8.800 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. -0.00 min

Lab File: VL034683.D

Acq: 26 Feb 2020 6:57

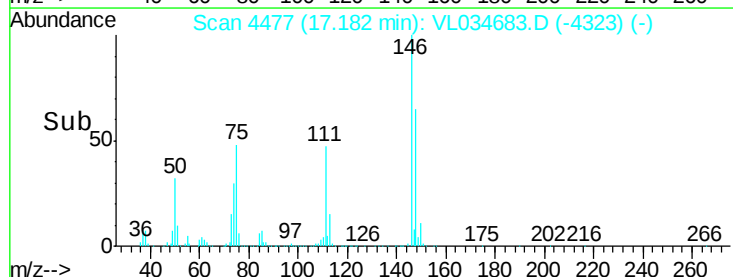
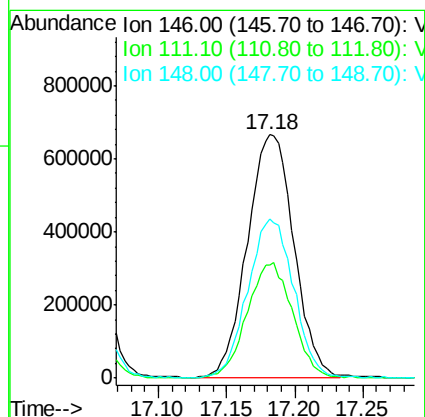
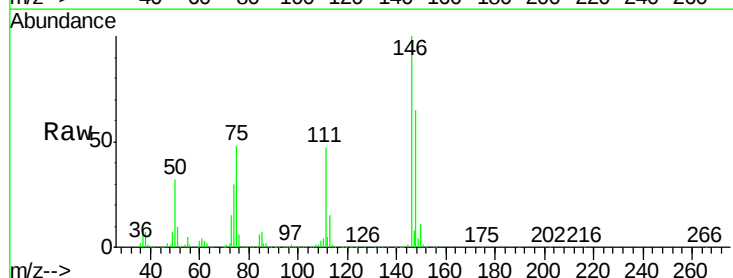
Tgt Ion:146 Resp: 1569222

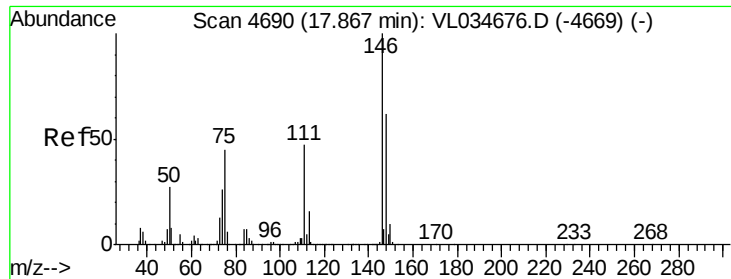
Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.0

148 65.2 31.9 95.5





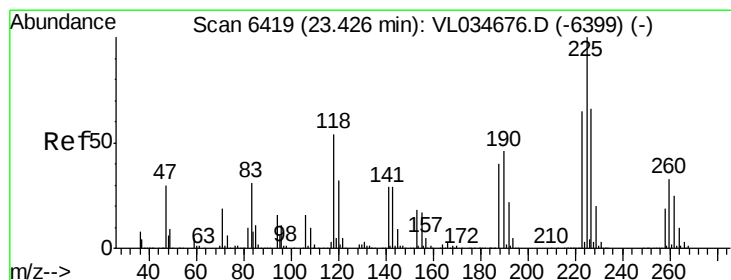
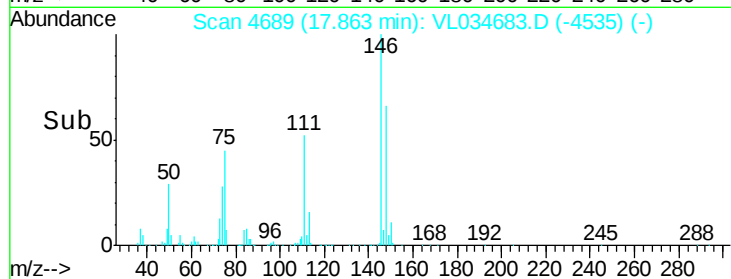
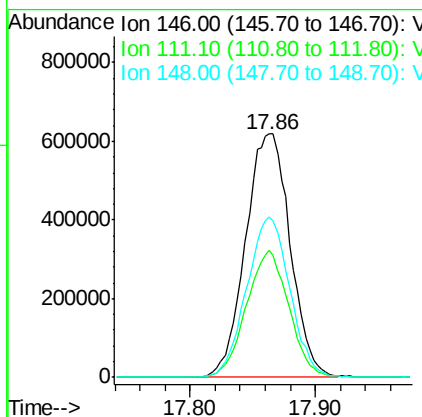
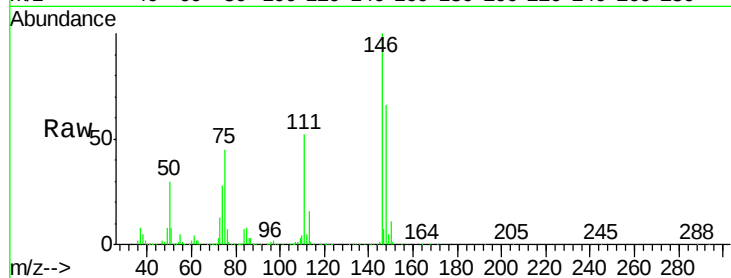
#77
 1,2-Dichlorobenzene
 Concen: 8.853 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.9	74.7
148	64.1	32.0	96.0

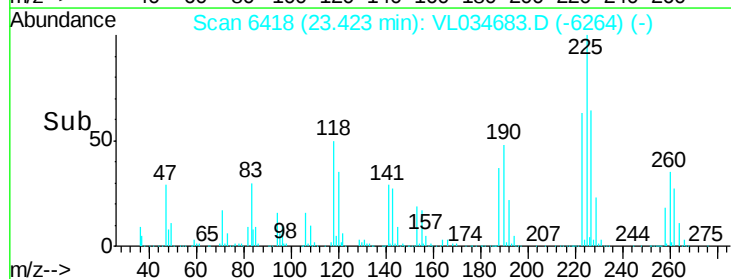
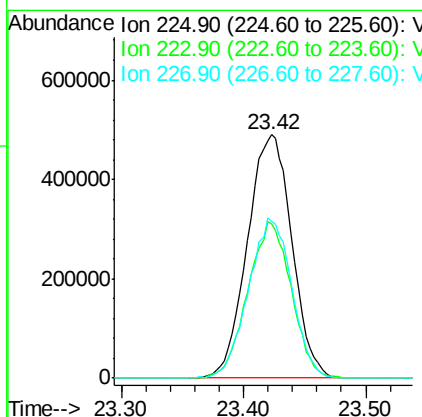
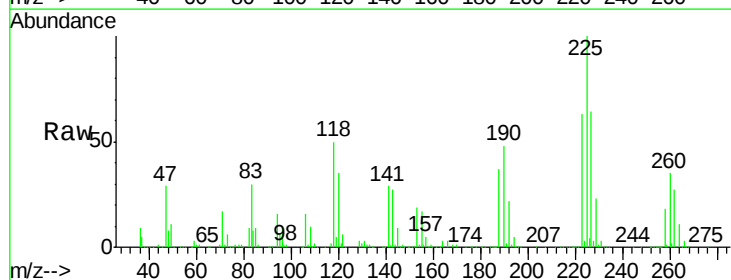
Manual Integrations
 APPROVED

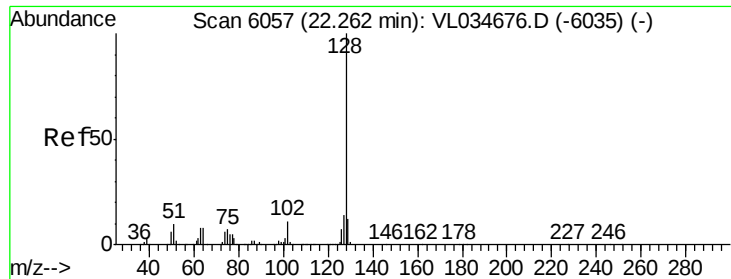
MMDadoda
 2/27/2020 5:19:40 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.222 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. -0.00 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	51.3	76.9
227	64.3	51.3	76.9





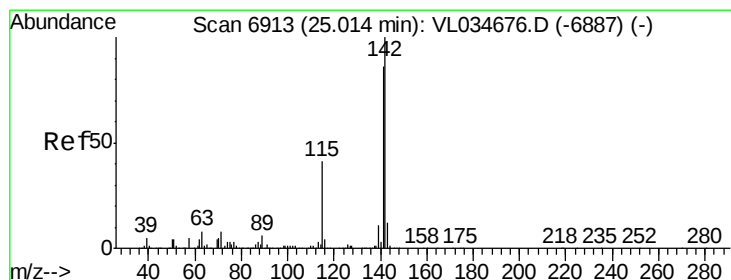
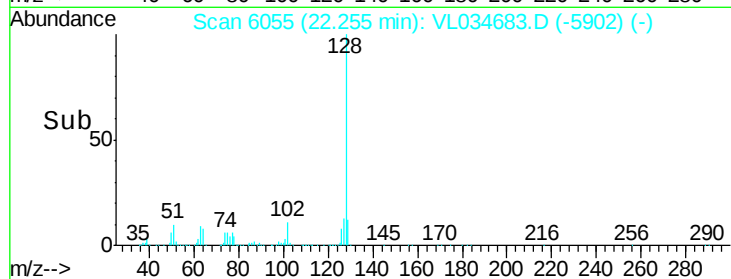
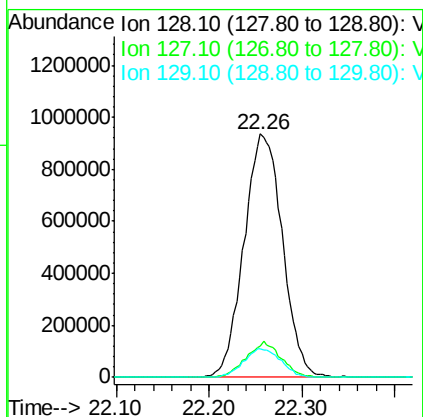
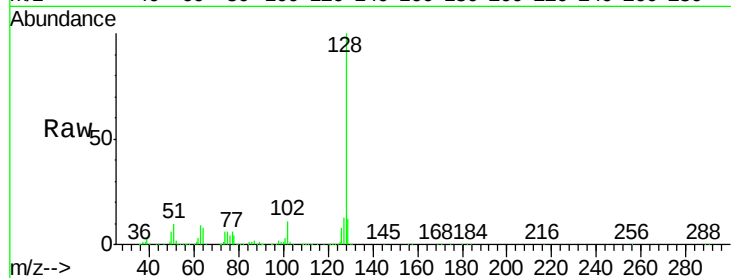
#79
Naphthalene
Concen: 9.936 ppbv
RT: 22.26 min Scan# 6055
Delta R.T. -0.01 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022620

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	11.0	16.6
129	11.5	9.4	14.2

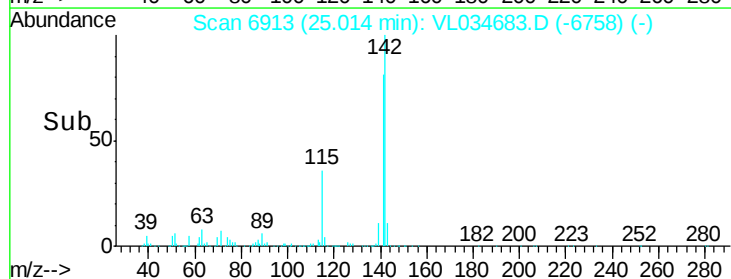
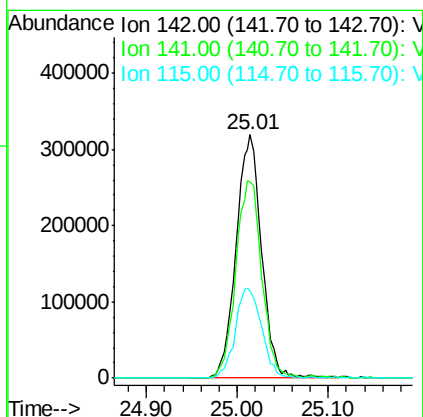
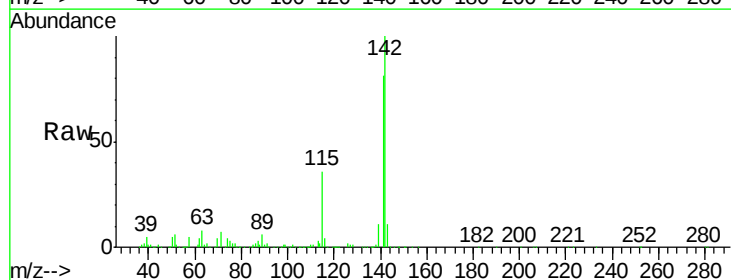
Manual Integrations
APPROVED

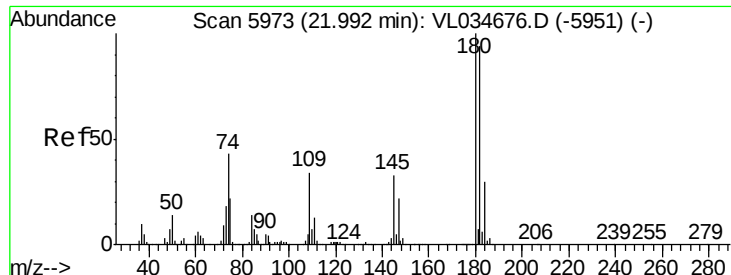
MMDadoda
2/27/2020 5:19:40 PM



#80
Naphthalene, 2-methyl-
Concen: 7.390 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. -0.00 min
Lab File: VL034683.D
Acq: 26 Feb 2020 6:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.0	66.5	99.7
115	38.1	30.6	46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.873 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL034683.D
 Acq: 26 Feb 2020 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.5	114.7
184	31.7	25.2	37.8

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:40 PM

