

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
 Data File : VL036190.D
 Acq On : 17 Dec 2020 6:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/17/2020 3:57:08 PM

Quant Time: Dec 17 08:03:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1385456	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2908639	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2760600m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2418642	11.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	1754577	10.867	ppbv	99
3) Chlorodifluoromethane	2.99	51	1653111	10.458	ppbv	98
4) Chloromethane	3.15	50	766080	9.871	ppbv	94
5) Vinyl Chloride	3.26	62	778624	9.018	ppbv	96
6) Bromomethane	3.48	94	423896	9.515	ppbv	95
7) Chloroethane	3.56	64	254905	8.667	ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	1809551	10.084	ppbv	93
9) Propene	3.01	41	753588	9.517	ppbv	95
10) Heptane	8.14	43	1911548	9.452	ppbv	100
11) Trichlorofluoromethane	3.96	101	1978530	10.423	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1247716	9.678	ppbv	94
13) Ethanol	3.61	45	105371m	9.653	ppbv	
14) Bromoethene	3.74	108	505478	9.557	ppbv	99
15) Acetone	3.86	43	1492473	8.963	ppbv	99
16) 1,3-Butadiene	3.33	39	815980	9.730	ppbv	97
17) tert-Butyl alcohol	4.30	59	1463800	9.076	ppbv	99
18) 1,1-Dichloroethene	4.30	96	546893	9.554	ppbv	96
19) Isopropyl Alcohol	3.98	45	951900	9.353	ppbv #	100
20) Methylene Chloride	4.35	84	465985	6.829	ppbv	99
21) Allyl Chloride	4.42	41	1008538	9.109	ppbv	94
22) trans-1,2-Dichloroethene	4.90	96	521191	9.095	ppbv	98
23) Vinyl Acetate	5.09	43	2143437	9.669	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1487336	9.539	ppbv	98
25) Ethyl Acetate	5.69	43	3250298	9.771	ppbv	100
26) Hexane	5.70	57	1335692	8.922	ppbv	99
27) Carbon Disulfide	4.56	76	1335504	8.976	ppbv	95
28) Methyl tert-Butyl Ether	5.04	73	1949833	9.161	ppbv	98
29) Chloroform	5.77	83	2065816	10.508	ppbv	97
30) Cyclohexane	7.15	84	1049925	9.547	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	1403342	10.312	ppbv	93
32) 1,1,1-Trichloroethane	6.53	97	2001150	9.864	ppbv	97
34) 2-Butanone	5.26	43	2017791	10.458	ppbv	100
35) Carbon Tetrachloride	7.04	117	1898617	11.194	ppbv	97
36) Benzene	6.91	78	2632475	10.679	ppbv	97
37) 1,2-Dichloroethane	6.33	62	1747144	12.232	ppbv	97
38) Trichloroethene	7.85	130	810830	8.799	ppbv	89
39) 1,2-Dichloropropane	7.64	63	1071644	11.008	ppbv	90
40) 1,4-Dioxane	7.85	88	311805	10.184	ppbv #	29
41) Tetrahydrofuran	6.07	42	1214403	10.595	ppbv	99
42) Bromodichloromethane	7.81	83	2238768	11.762	ppbv	98
43) Methyl Methacrylate	8.03	69	1208676	11.430	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
 Data File : VL036190.D
 Acq On : 17 Dec 2020 6:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

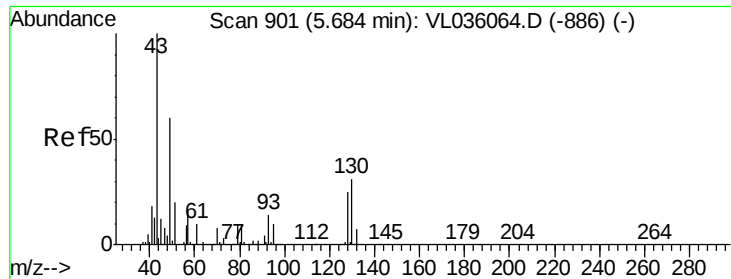
Manual Integrations
 APPROVED

MMDadoda
 12/17/2020 3:57:08 PM

Quant Time: Dec 17 08:03:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4686822	10.499	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1274126	11.728	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1518355	11.150	ppbv	94
47) 1,1,2-Trichloroethane	9.50	97	1019420	10.885	ppbv	98
48) Dibromochloromethane	10.33	129	1580033	11.172	ppbv	99
49) Bromoform	13.07	173	1275513	11.459	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	3221989	11.198	ppbv	99
51) 2-Hexanone	10.16	43	2624849m	11.670	ppbv	
52) Tetrachloroethene	11.25	164	791252	8.867	ppbv	95
53) Toluene	9.83	91	2931119	10.589	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1504072	10.714	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1195515	10.444	ppbv	96
57) Chlorobenzene	12.17	112	1988688	10.261	ppbv	97
58) Ethyl Benzene	12.73	91	4033919	10.663	ppbv	97
59) m/p-Xylene	13.02	91	6858944m	21.525	ppbv	
60) o-Xylene	13.72	91	3208185	10.686	ppbv	97
61) Styrene	13.55	104	2166991	11.243	ppbv	95
62) Isopropylbenzene	14.69	105	4606013	10.350	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.70	83	2201097	10.886	ppbv	100
64) n-propylbenzene	15.59	120	1119241	10.454	ppbv	85
65) tert-Butylbenzene	16.77	119	3841071	10.545	ppbv	92
66) Benzyl Chloride	17.02	91	1188658	13.106	ppbv	93
67) sec-Butylbenzene	17.32	105	5603094	10.991	ppbv	98
69) p-Isopropyltoluene	17.68	119	4403266	10.859	ppbv	96
70) n-Butylbenzene	18.58	91	4941143	12.329	ppbv	99
71) 2-Chlorotoluene	15.48	91	3757693	11.171	ppbv	96
72) 4-Ethyltoluene	15.87	105	3588231	11.034	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	3399927	10.946	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	3473886	11.142	ppbv	96
75) 1,3-Dichlorobenzene	17.02	146	1688429	10.819	ppbv	98
76) 1,4-Dichlorobenzene	17.17	146	1642489	10.337	ppbv	95
77) 1,2-Dichlorobenzene	17.85	146	1608665	10.795	ppbv	97
78) Hexachloro-1,3-Butadiene	23.40	225	1031414	8.636	ppbv	100
79) Naphthalene	22.23	128	1987386	12.540	ppbv	98
80) Naphthalene,2-methyl-	25.00	142	543743	15.343	ppbv	97
81) 1,2,4-Trichlorobenzene	21.96	180	1032204m	9.748	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 49 Resp: 1385456

Ion Ratio Lower Upper

49 100

128 36.9 21.1 63.1

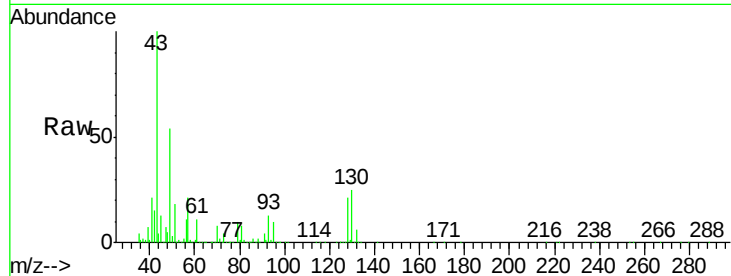
130 46.9 27.1 81.3

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.68

800000

600000

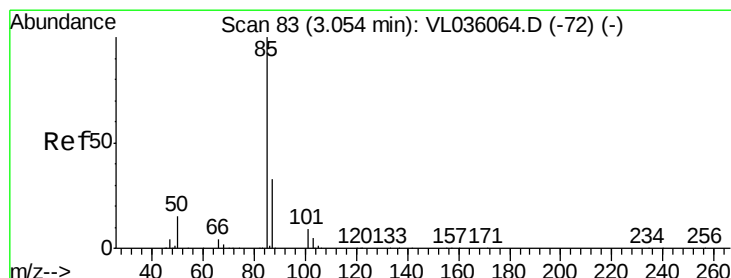
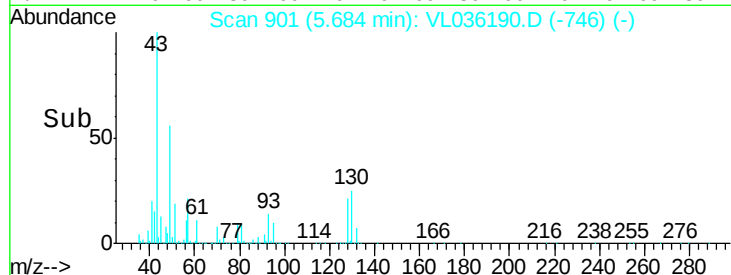
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 10.867 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL036190.D

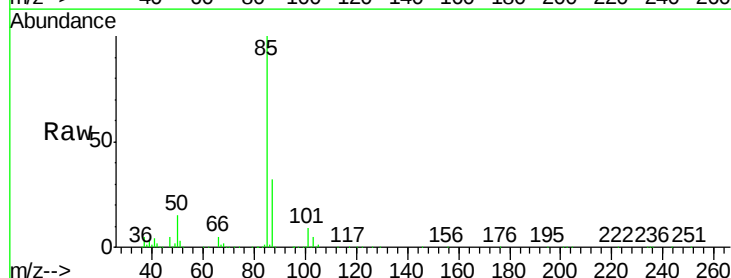
Acq: 17 Dec 2020 6:21

Tgt Ion: 85 Resp: 1754577

Ion Ratio Lower Upper

85 100

87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

1200000

1000000

800000

600000

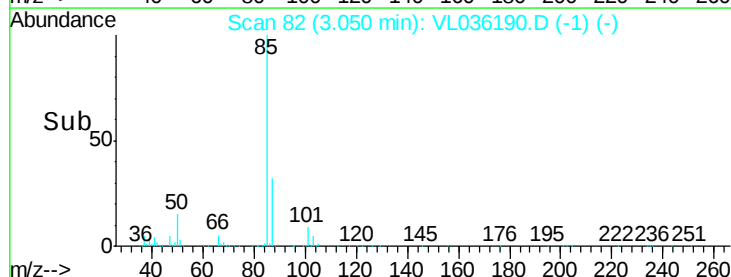
400000

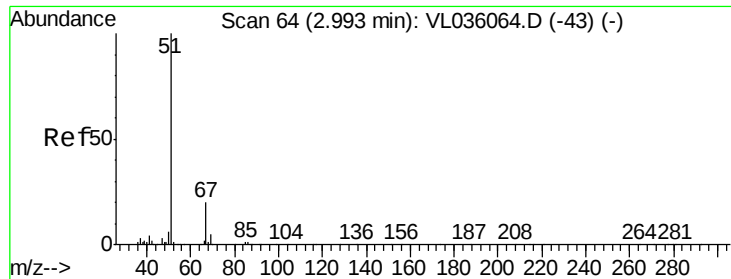
200000

0

3.00 3.05 3.10

Time-->





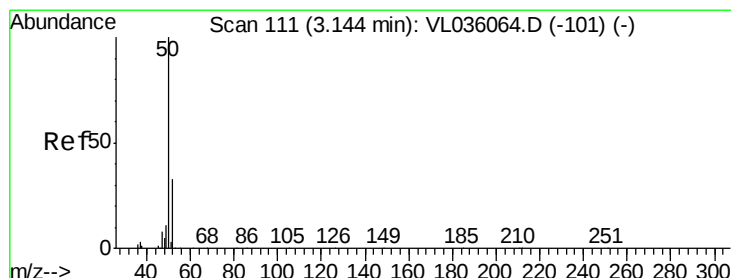
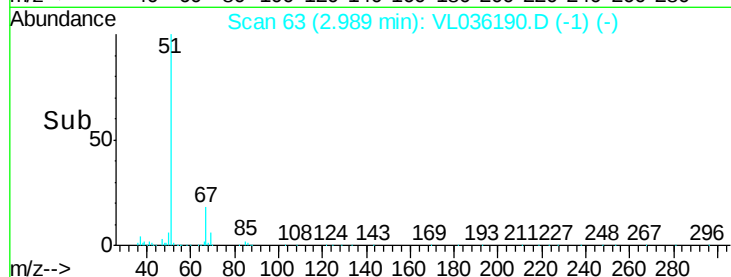
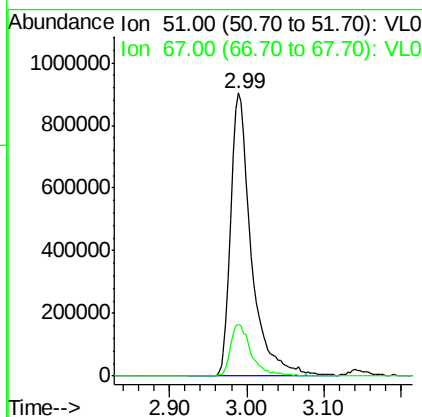
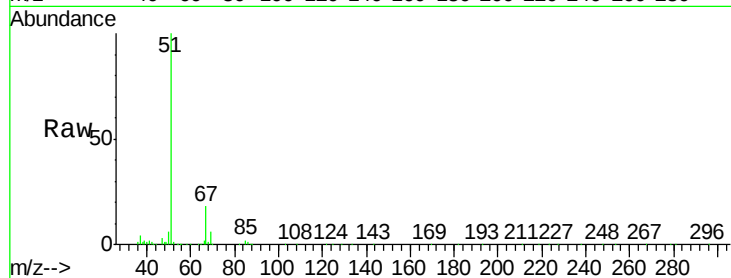
#3
Chlorodifluoromethane
Concen: 10.458 ppbv
RT: 2.99 min Scan# 63
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 51 Resp: 1653111
Ion Ratio Lower Upper
51 100
67 18.8 14.3 21.5

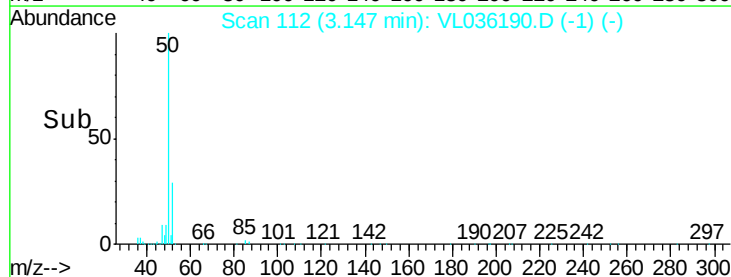
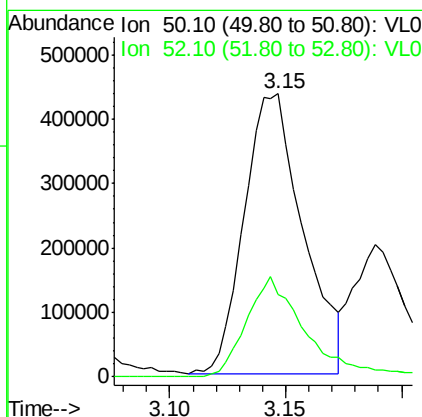
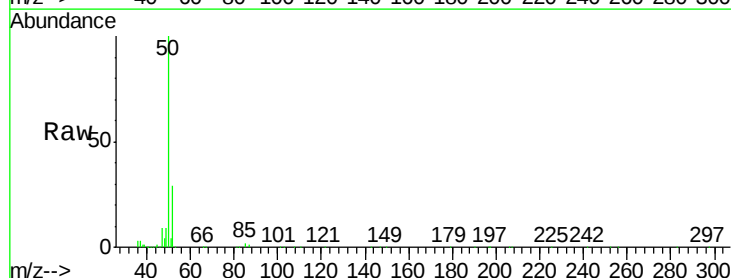
Manual Integrations
APPROVED

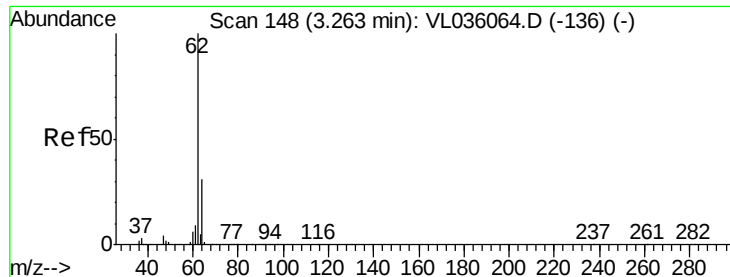
MMDadoda
12/17/2020 3:57:08 PM



#4
Chloromethane
Concen: 9.871 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 50 Resp: 766080
Ion Ratio Lower Upper
50 100
52 29.4 26.1 39.1





#5

Vinyl Chloride

Concen: 9.018 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 62 Resp: 778624

Ion Ratio Lower Upper

62 100

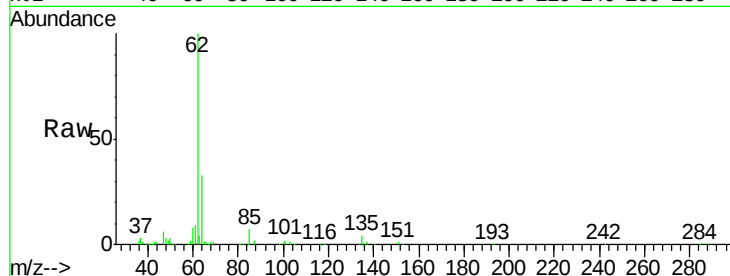
64 33.0 24.5 36.7

Manual Integrations

APPROVED

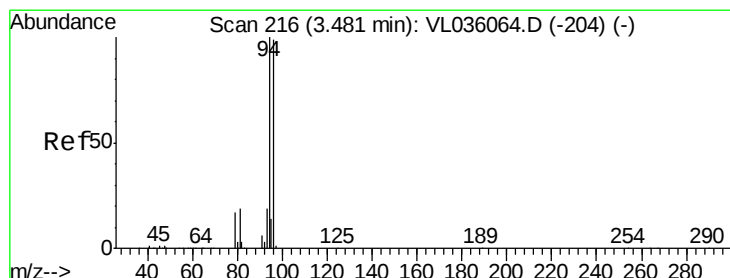
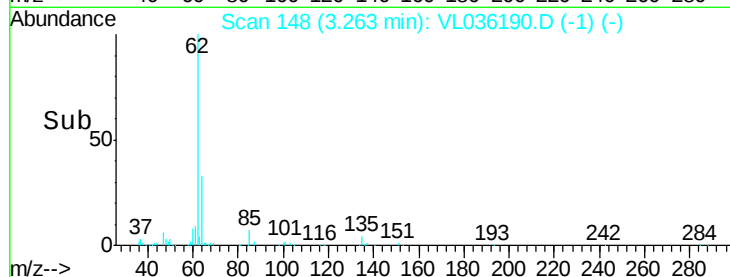
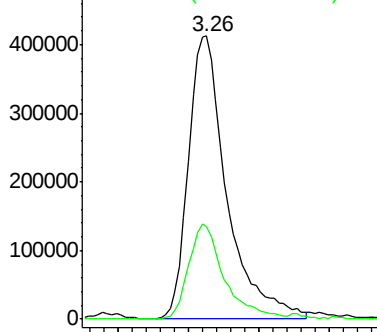
MMDadoda

12/17/2020 3:57:08 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.515 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL036190.D

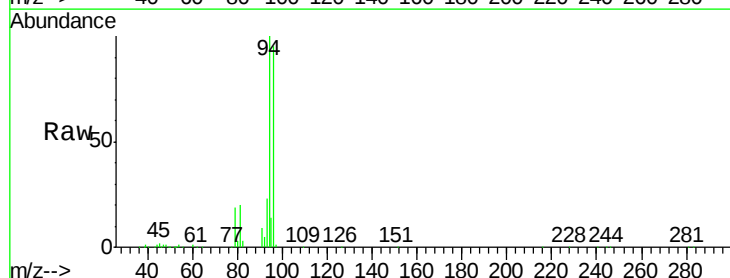
Acq: 17 Dec 2020 6:21

Tgt Ion: 94 Resp: 423896

Ion Ratio Lower Upper

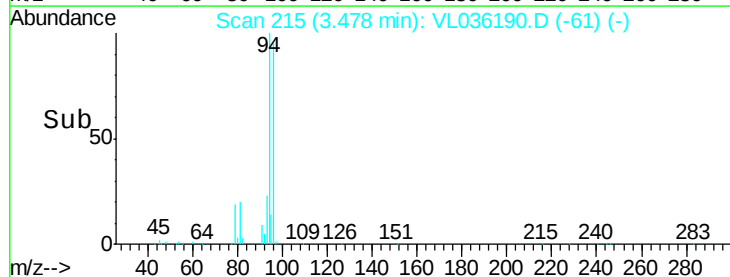
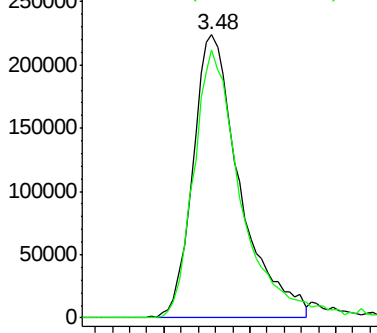
94 100

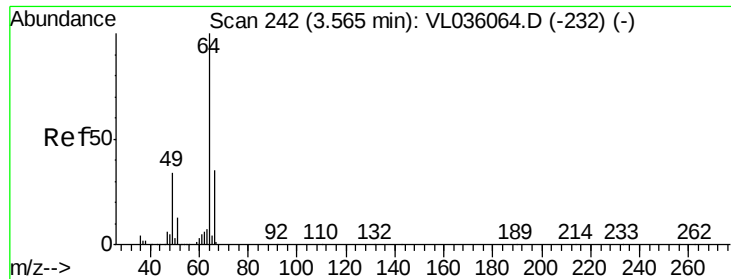
96 94.5 79.4 119.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.667 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 64 Resp: 254905

Ion Ratio Lower Upper

64 100

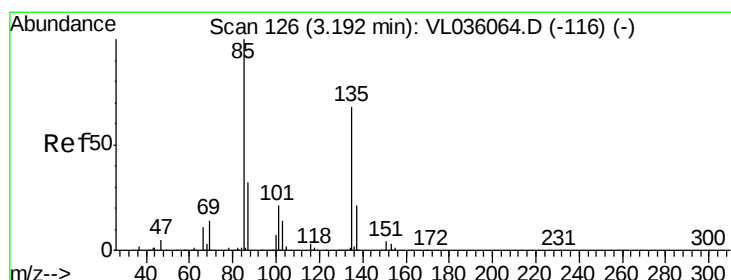
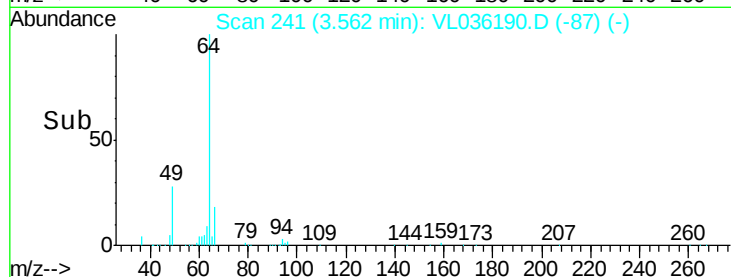
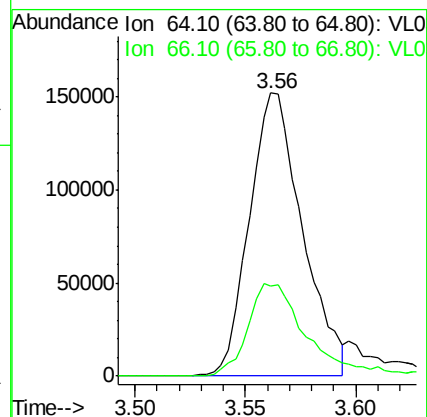
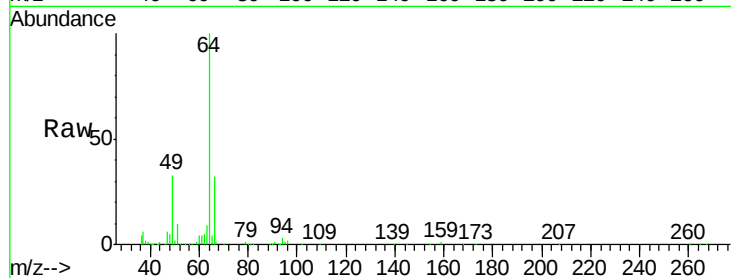
66 31.7 27.7 41.5

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#8

Dichlorotetrafluoroethane

Concen: 10.084 ppbv

RT: 3.19 min Scan# 126

Delta R.T. -0.00 min

Lab File: VL036190.D

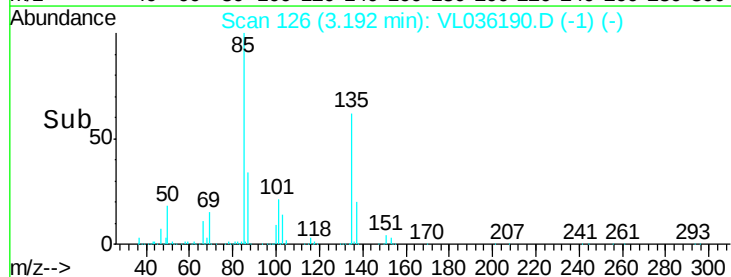
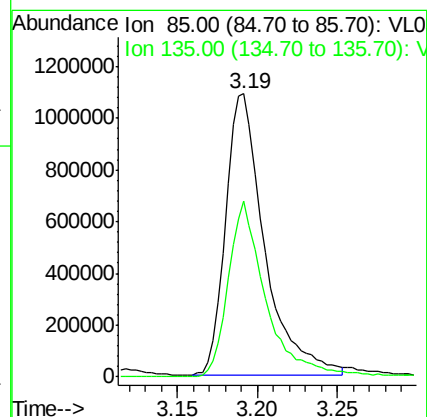
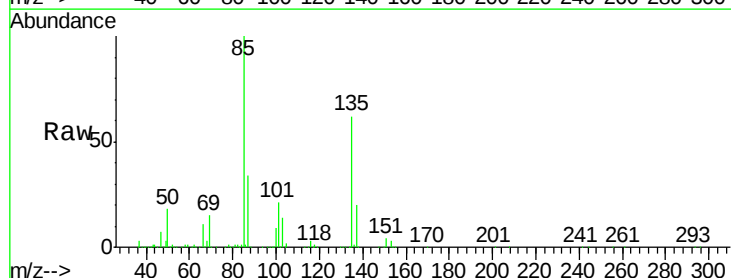
Acq: 17 Dec 2020 6:21

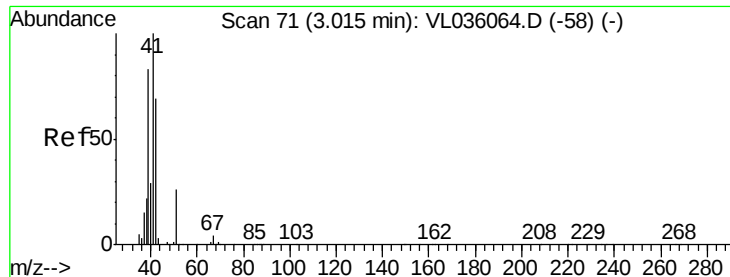
Tgt Ion: 85 Resp: 1809551

Ion Ratio Lower Upper

85 100

135 61.3 53.8 80.8





#9

Propene

Concen: 9.517 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 41 Resp: 753588

Ion Ratio Lower Upper

41 100

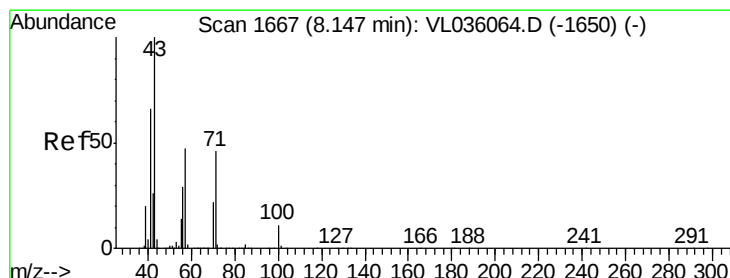
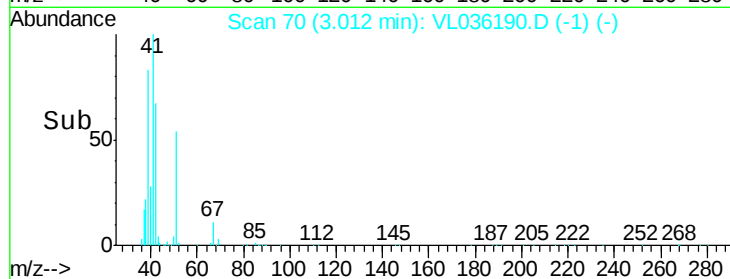
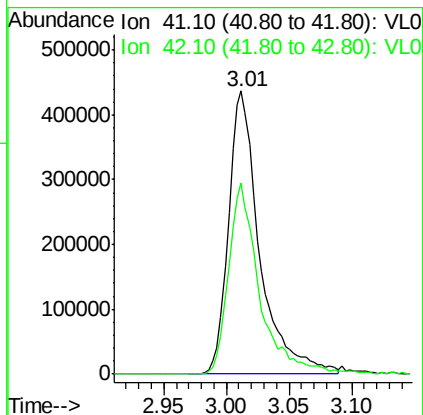
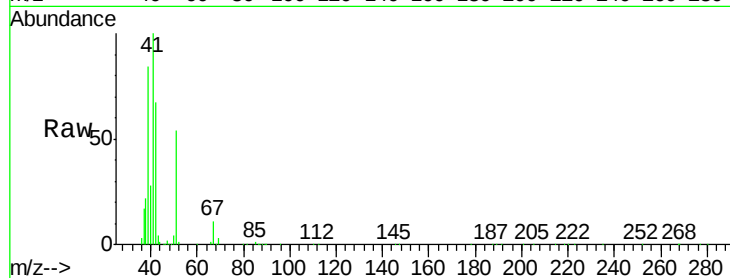
42 67.4 57.0 85.6

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#10

Heptane

Concen: 9.452 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL036190.D

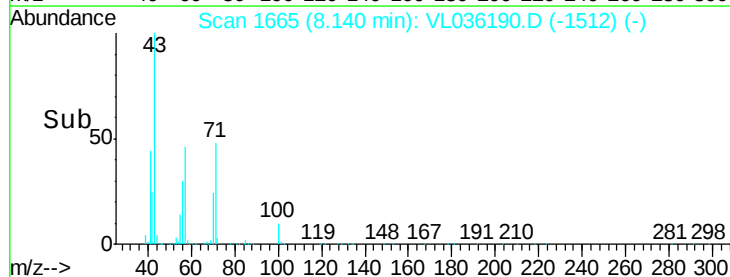
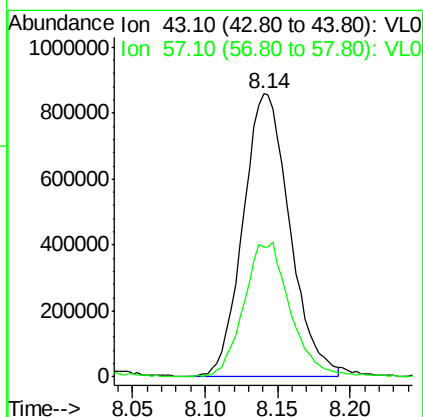
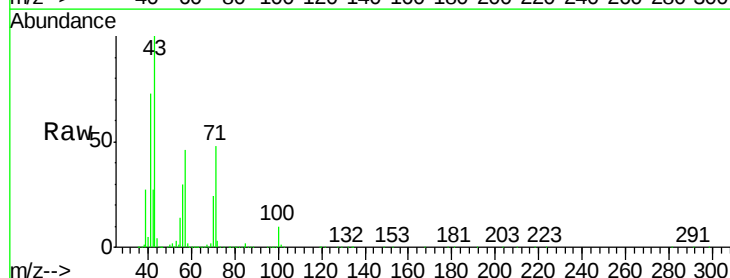
Acq: 17 Dec 2020 6:21

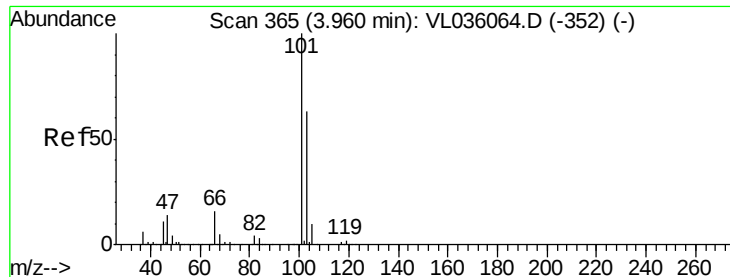
Tgt Ion: 43 Resp: 1911548

Ion Ratio Lower Upper

43 100

57 47.4 37.9 56.9





#11

Trichlorofluoromethane

Concen: 10.423 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:101 Resp: 1978530

Ion Ratio Lower Upper

101 100

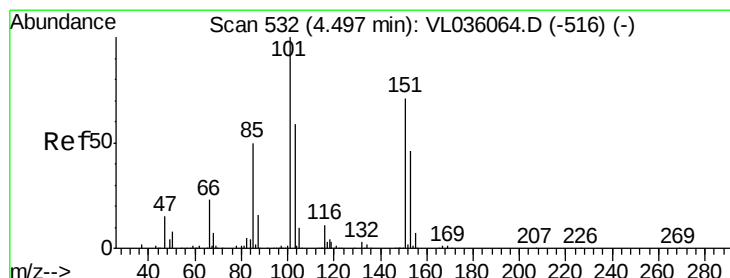
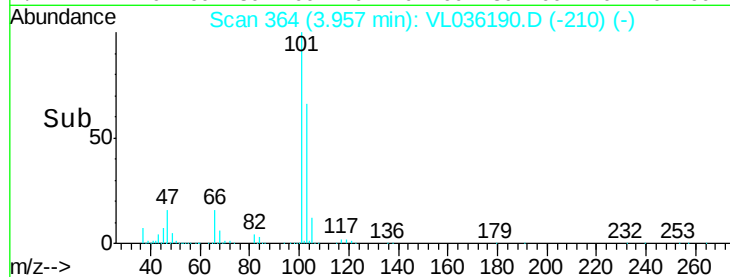
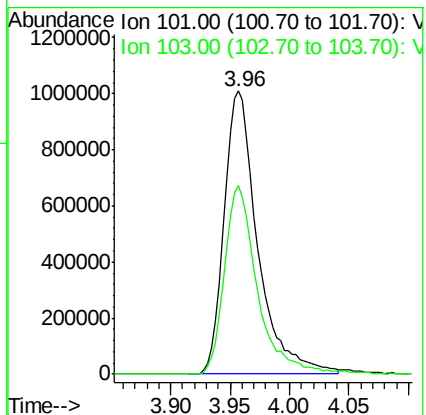
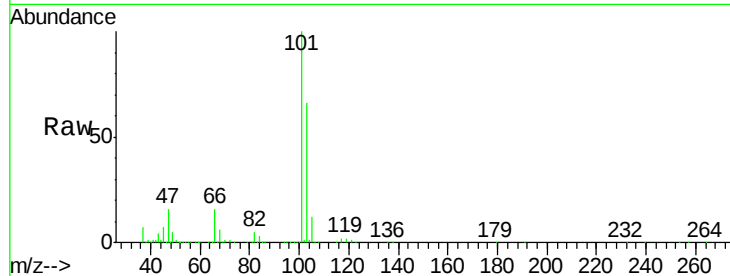
103 66.5 50.3 75.5

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.678 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL036190.D

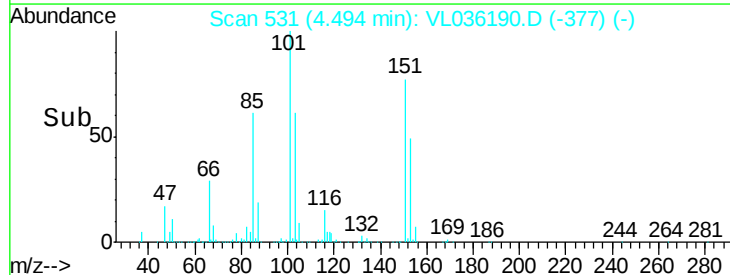
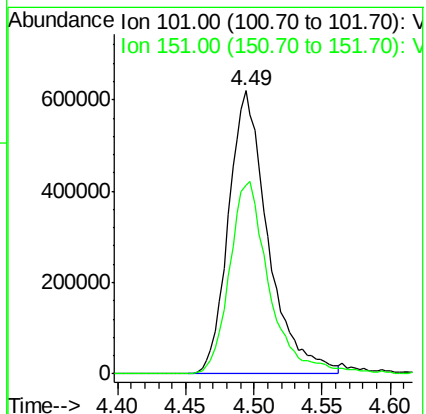
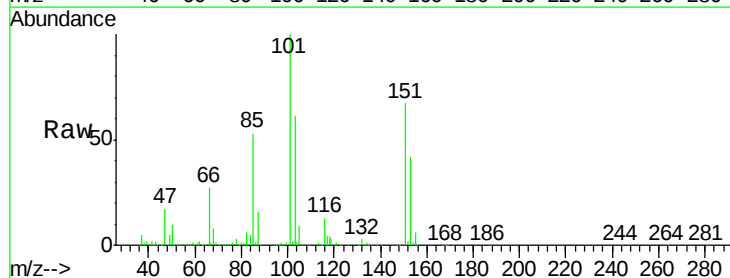
Acq: 17 Dec 2020 6:21

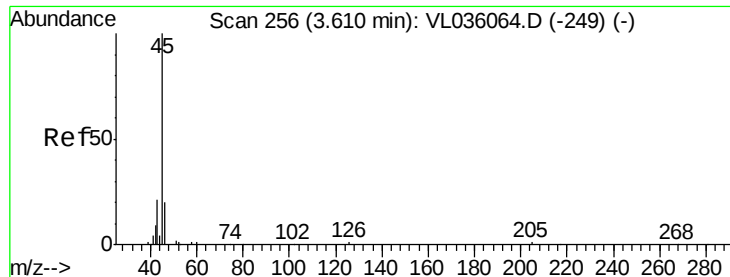
Tgt Ion:101 Resp: 1247716

Ion Ratio Lower Upper

101 100

151 69.3 59.3 88.9





#13

Ethanol

Concen: 9.653 ppbv m

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 105371

Ion Ratio Lower Upper

45 100

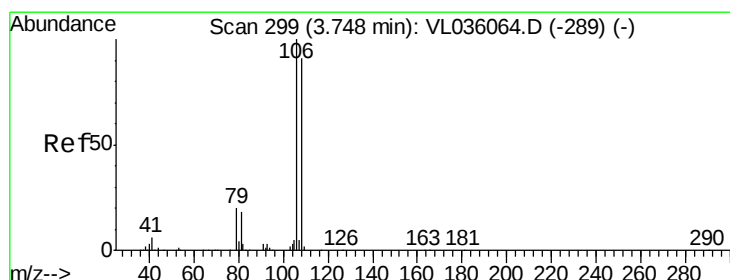
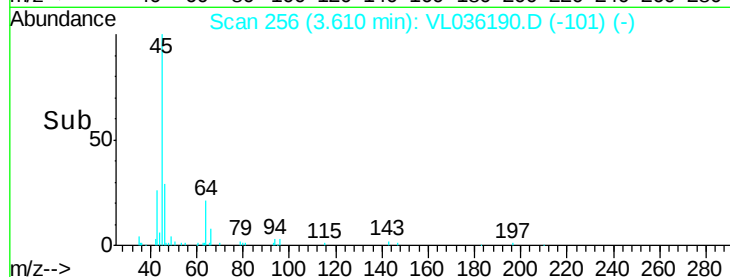
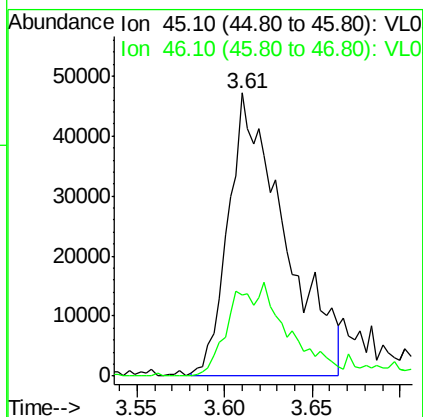
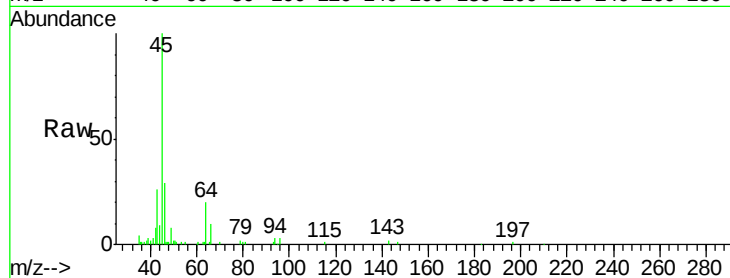
46 38.4 19.0 75.8

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#14

Bromoethene

Concen: 9.557 ppbv

RT: 3.74 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

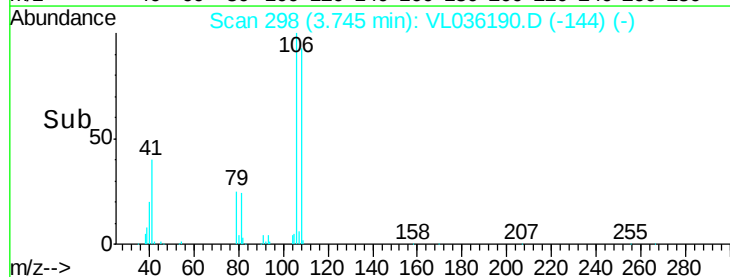
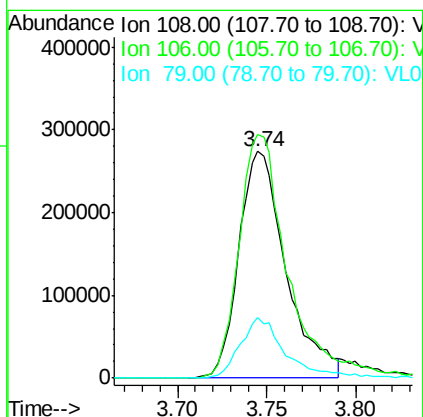
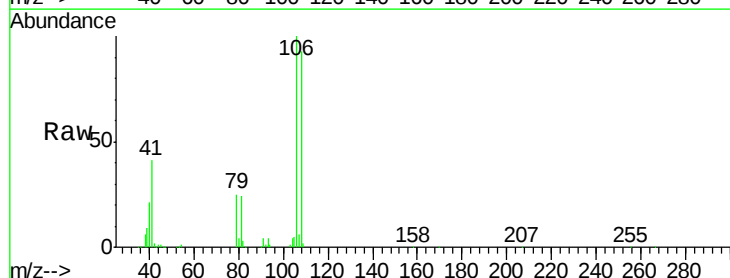
Tgt Ion: 108 Resp: 505478

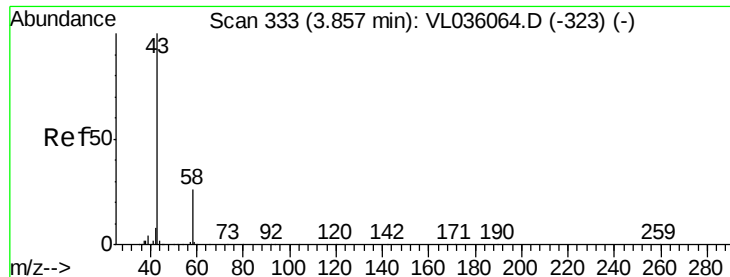
Ion Ratio Lower Upper

108 100

106 113.7 91.0 136.4

79 26.2 19.3 28.9





#15

Acetone

Concen: 8.963 ppbv

RT: 3.86 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1492473

Ion Ratio Lower Upper

43 100

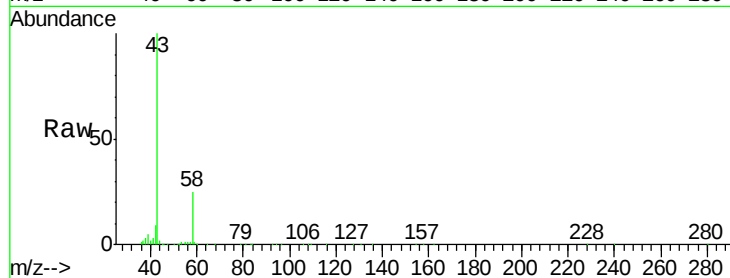
58 25.5 20.9 31.3

Manual Integrations

APPROVED

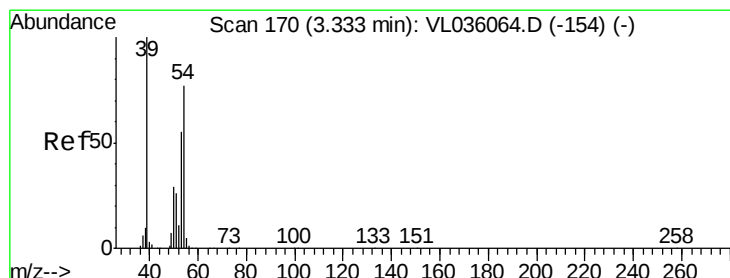
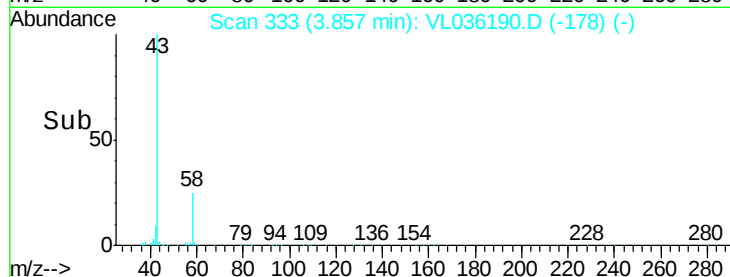
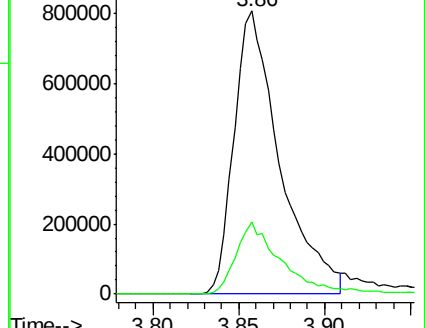
MMDadoda

12/17/2020 3:57:08 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.730 ppbv

RT: 3.33 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL036190.D

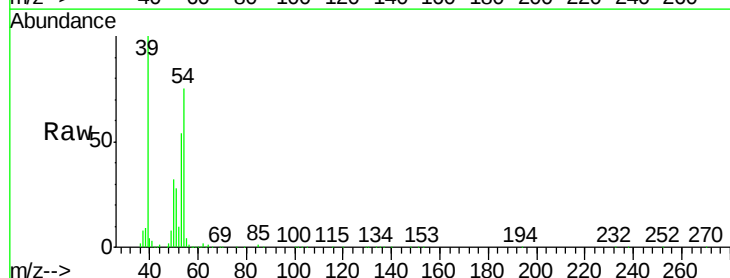
Acq: 17 Dec 2020 6:21

Tgt Ion: 39 Resp: 815980

Ion Ratio Lower Upper

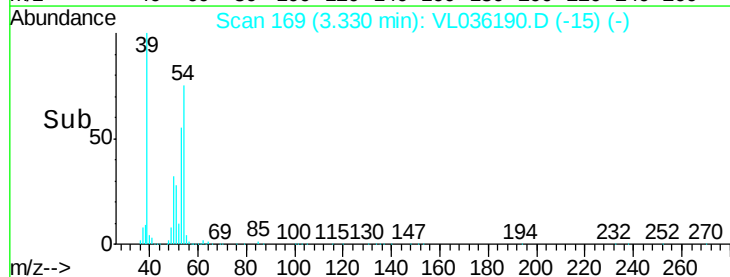
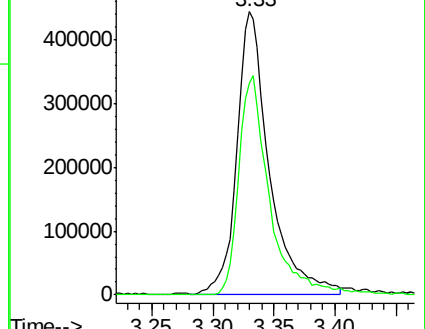
39 100

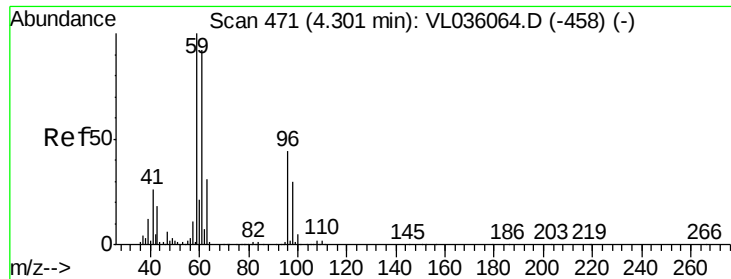
54 74.7 62.1 93.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

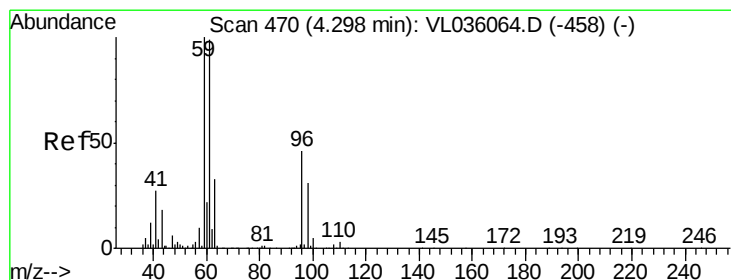
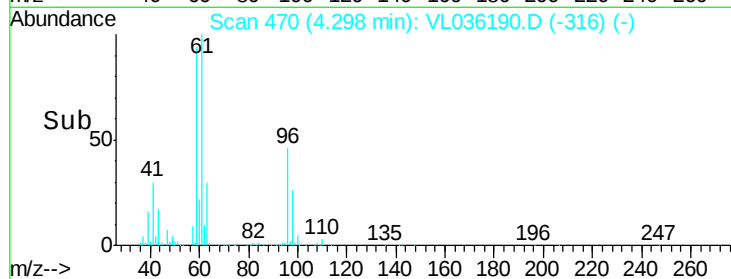
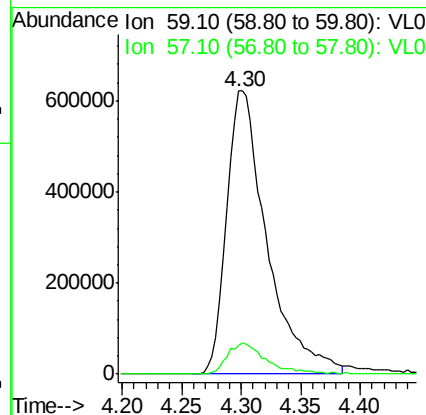
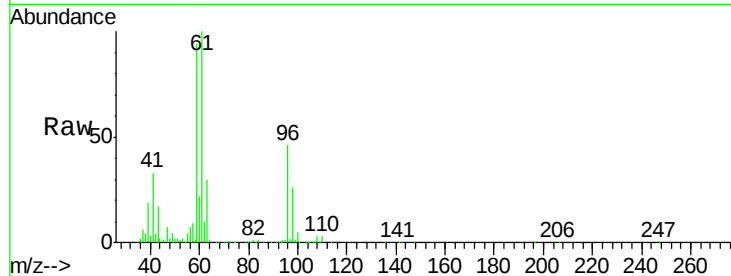
tert-Butyl alcohol
Concen: 9.076 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 59 Resp: 1463800
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

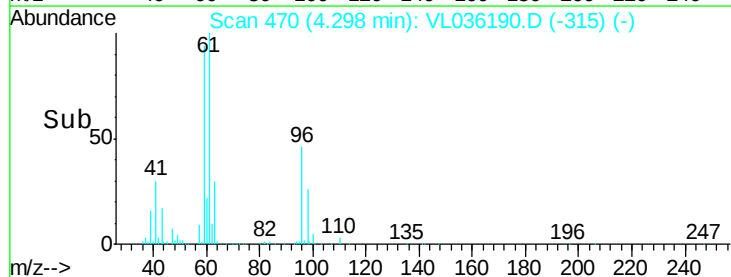
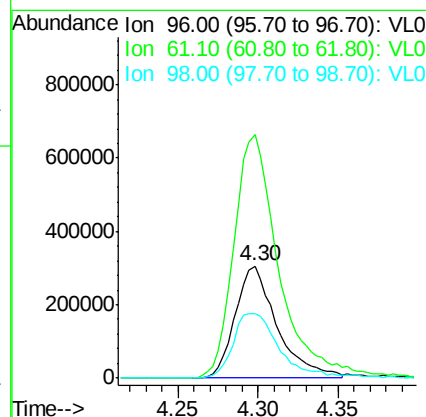
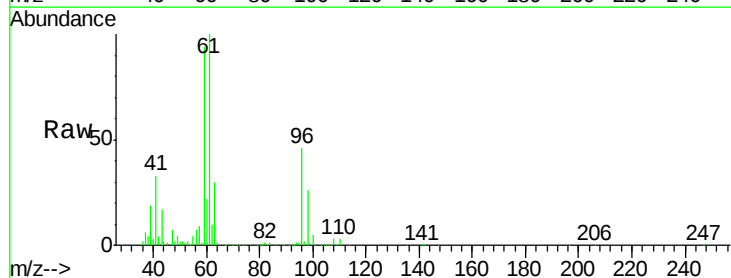
MMDadoda
12/17/2020 3:57:08 PM

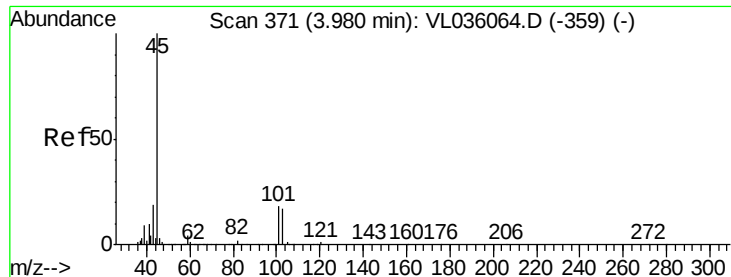


#18

1,1-Dichloroethene
Concen: 9.554 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 96 Resp: 546893
Ion Ratio Lower Upper
96 100
61 216.8 171.4 257.2
98 57.0 54.2 81.2





#19

Isopropyl Alcohol

Concen: 9.353 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 951900

Ion Ratio Lower Upper

45 100

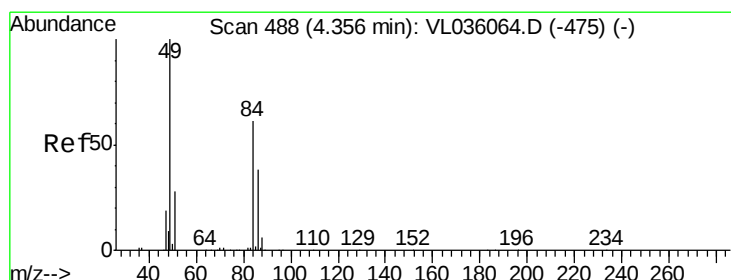
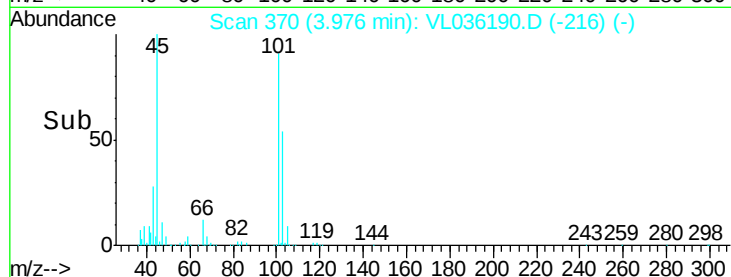
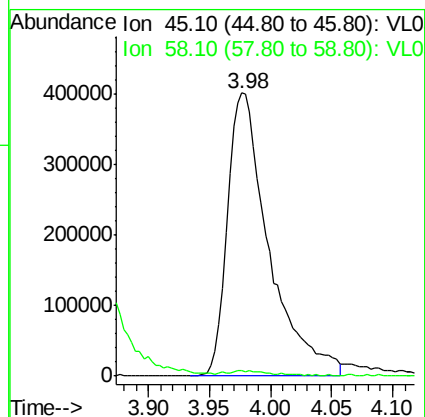
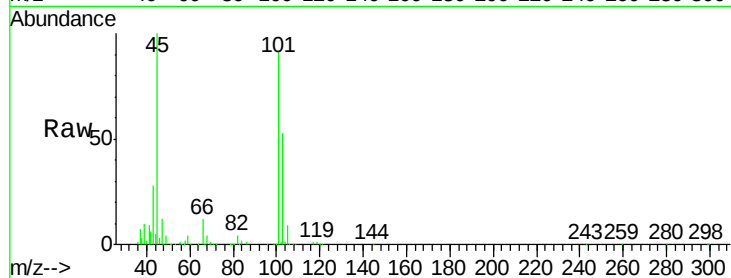
58 2.1 0.0 0.0#

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#20

Methylene Chloride

Concen: 6.829 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Tgt Ion: 84 Resp: 465985

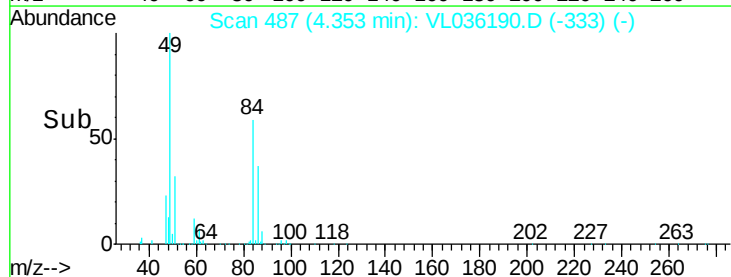
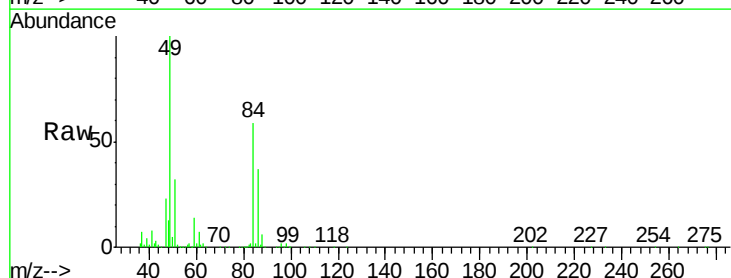
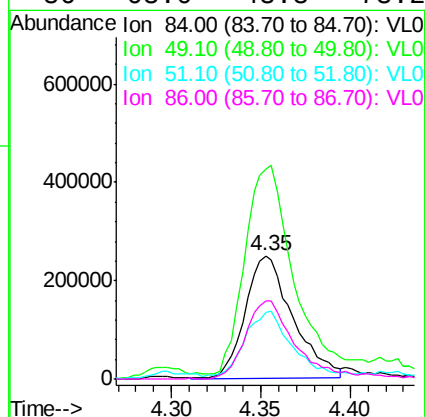
Ion Ratio Lower Upper

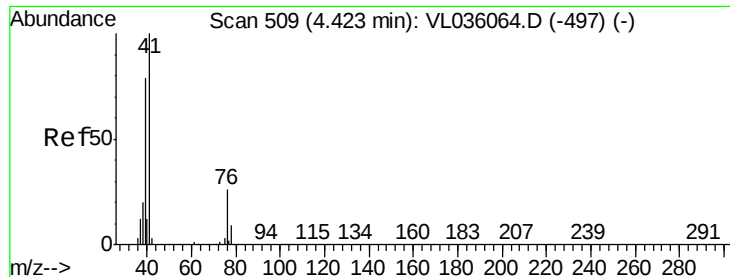
84 100

49 166.8 133.0 199.4

51 51.0 38.9 58.3

86 63.0 48.8 73.2





#21

Allyl Chloride

Concen: 9.109 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 41 Resp: 1008538

Ion Ratio Lower Upper

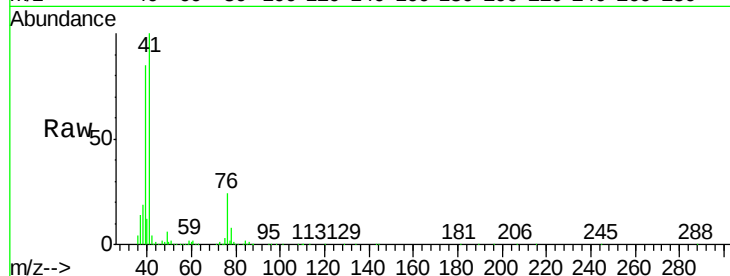
41 100

76 26.5 21.0 31.4

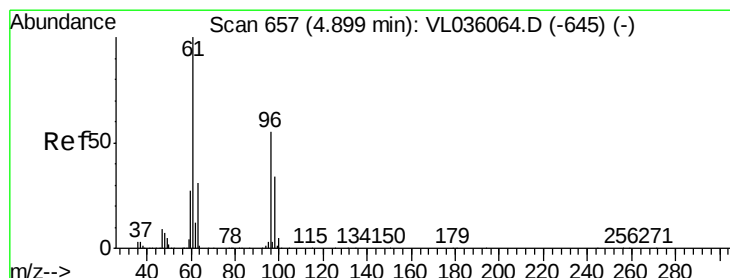
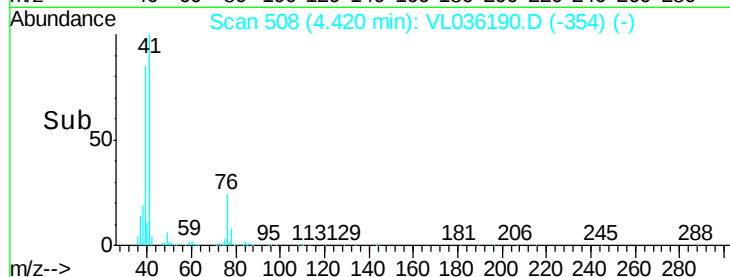
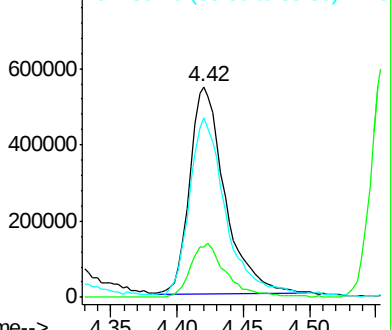
39 89.2 66.0 99.0

Manual Integrations
APPROVED

MMDadoda
12/17/2020 3:57:08 PM



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



#22

trans-1,2-Dichloroethene

Concen: 9.095 ppbv

RT: 4.90 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

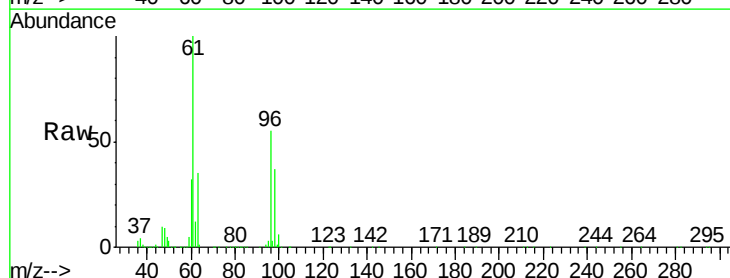
Tgt Ion: 96 Resp: 521191

Ion Ratio Lower Upper

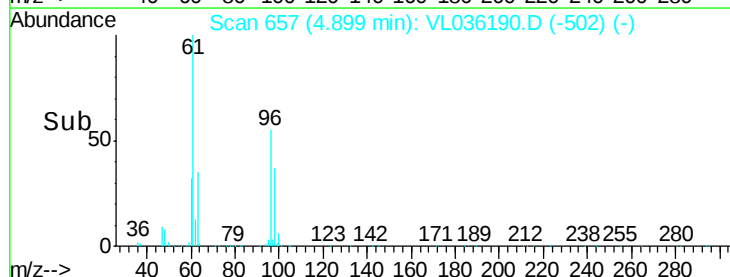
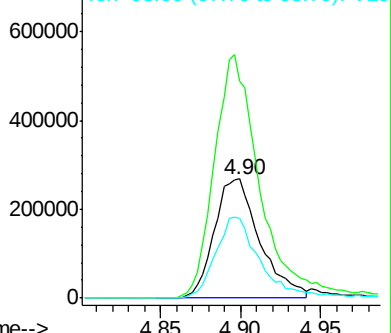
96 100

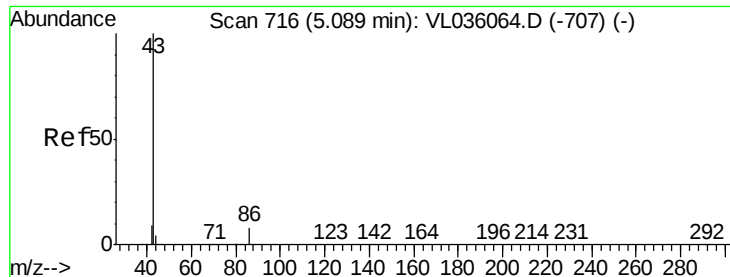
61 182.0 145.7 218.5

98 67.0 49.2 73.8



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





#23

Vinyl Acetate

Concen: 9.669 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2143437

Ion Ratio Lower Upper

43 100

86 6.0 5.0 7.4

42 10.3 7.8 11.6

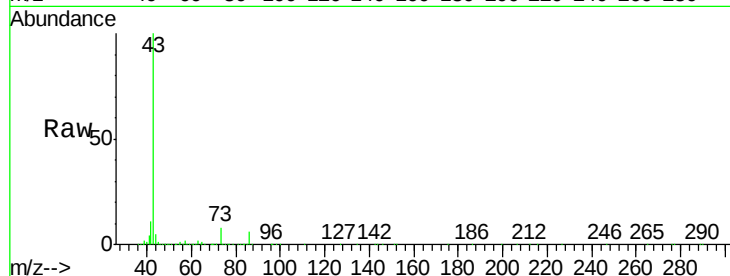
44 4.6 3.2 4.8

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM

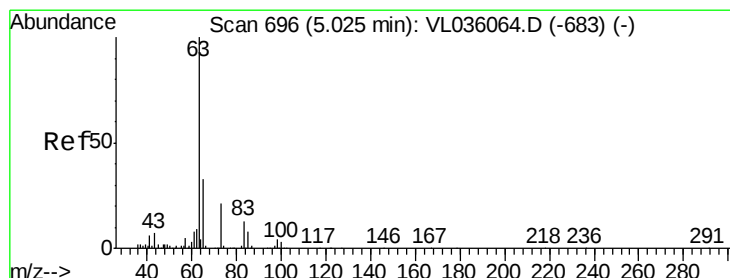
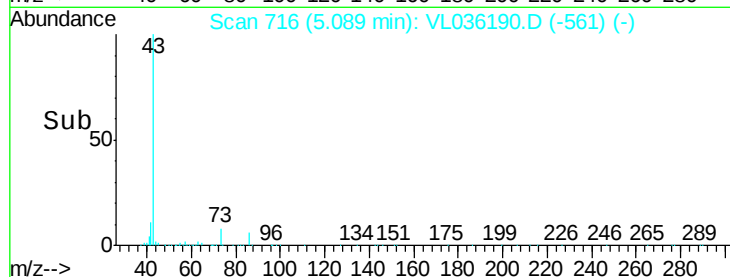
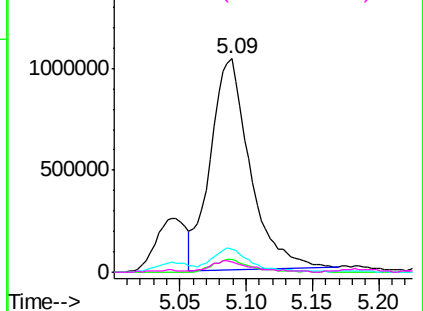


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.539 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

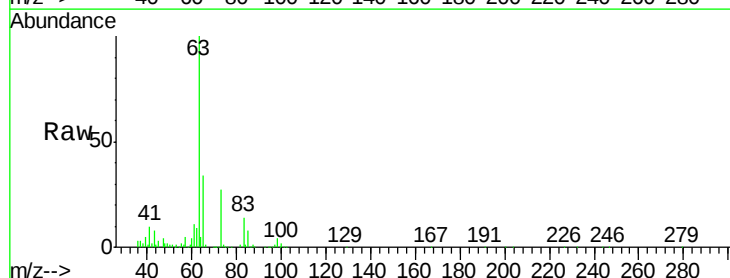
Tgt Ion: 63 Resp: 1487336

Ion Ratio Lower Upper

63 100

98 3.8 2.2 6.6

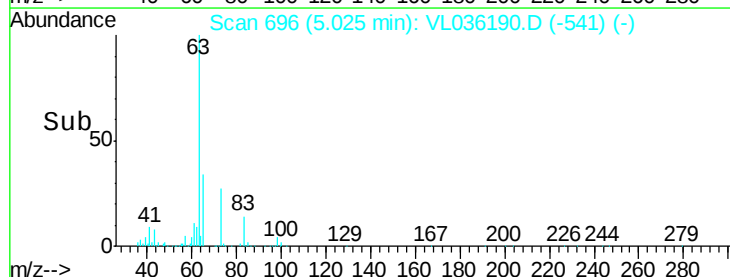
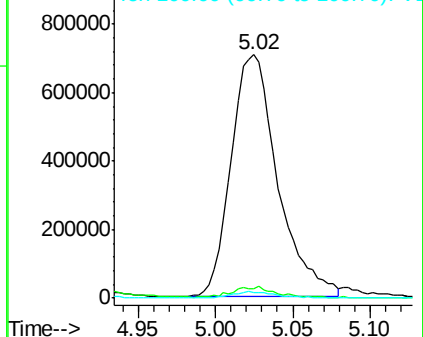
100 2.1 1.5 4.4

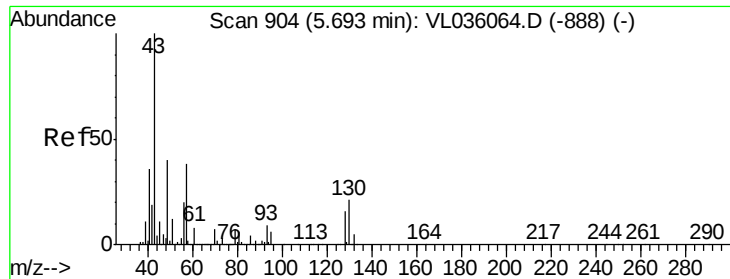


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.771 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 3250298

Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

61 9.1 7.4 11.2

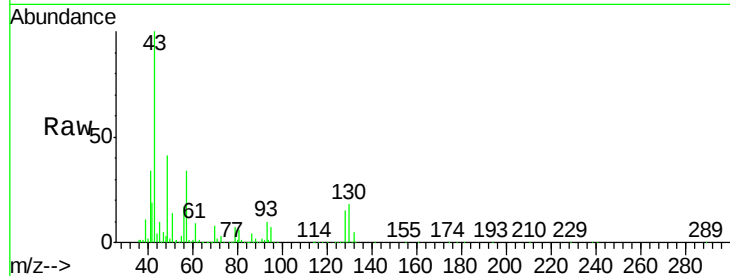
70 6.6 5.4 8.0

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



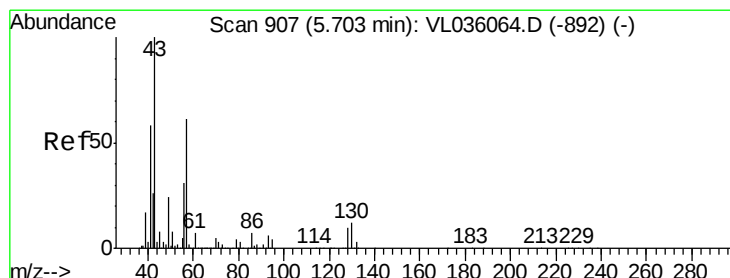
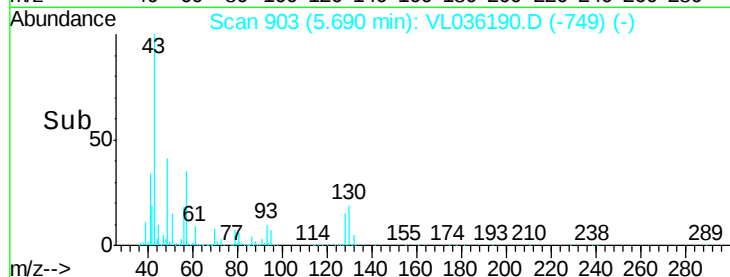
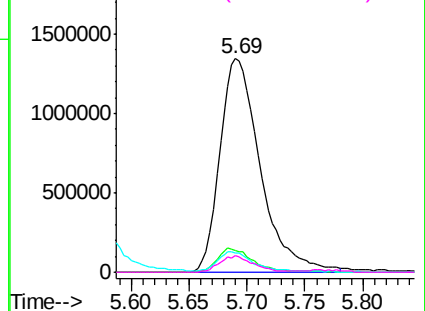
Abundance

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: 8.922 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Tgt Ion: 57 Resp: 1335692

Ion Ratio Lower Upper

57 100

41 101.6 82.9 124.3

43 248.3 199.9 299.9

56 52.6 43.1 64.7

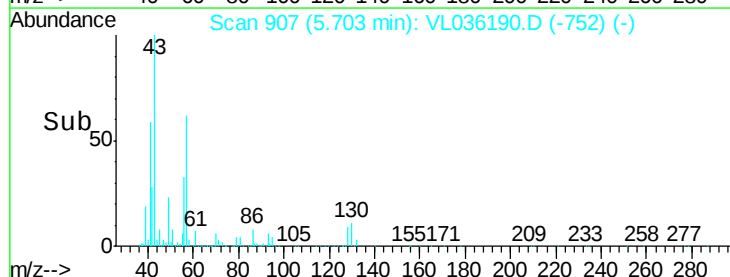
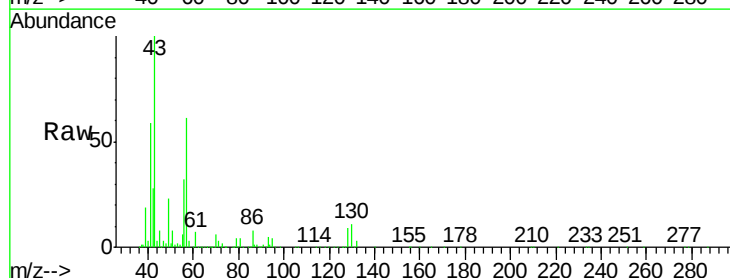
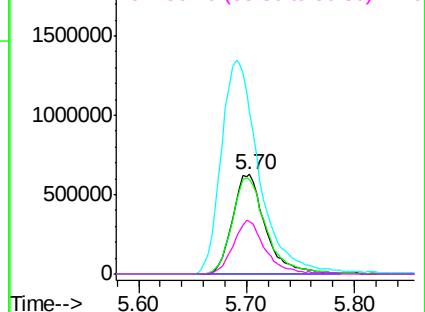
Abundance

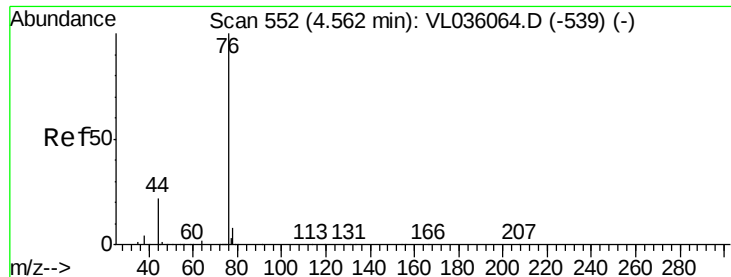
Ion 57.10 (56.80 to 57.80): VL0

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





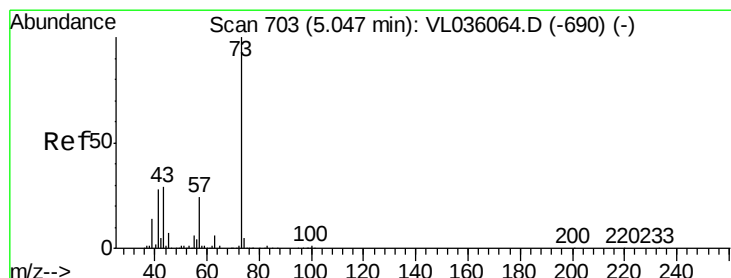
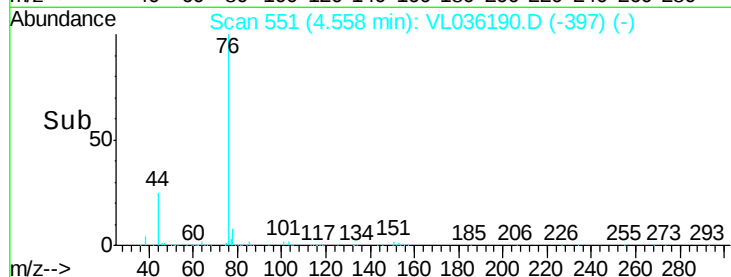
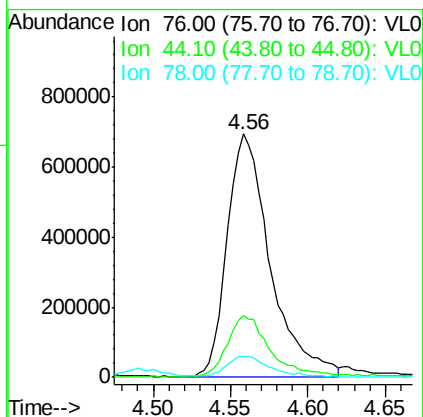
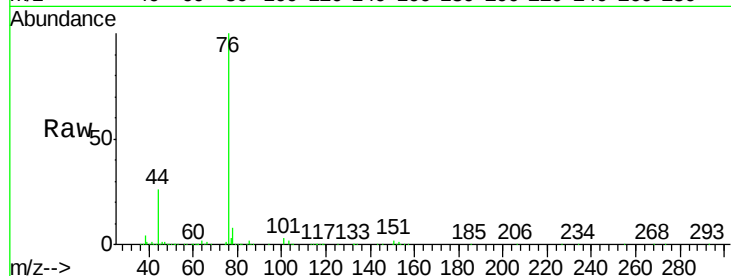
#27
Carbon Disulfide
Concen: 8.976 ppbv
RT: 4.56 min Scan# 551
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 76 Resp: 1335504
Ion Ratio Lower Upper
76 100
44 26.1 17.9 26.9
78 9.6 7.8 11.8

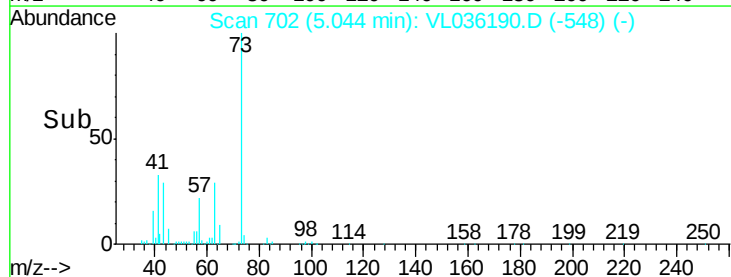
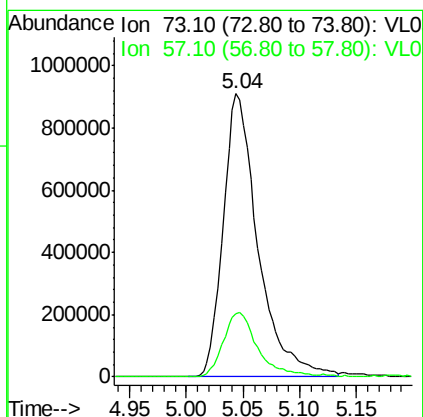
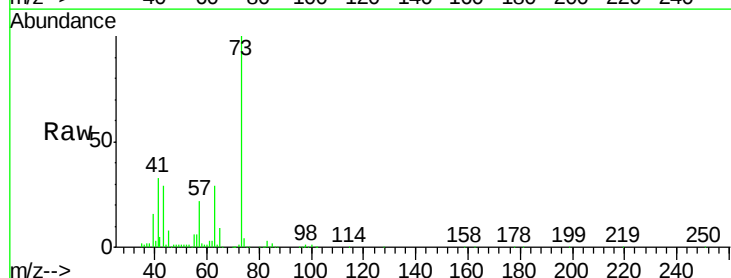
Manual Integrations
APPROVED

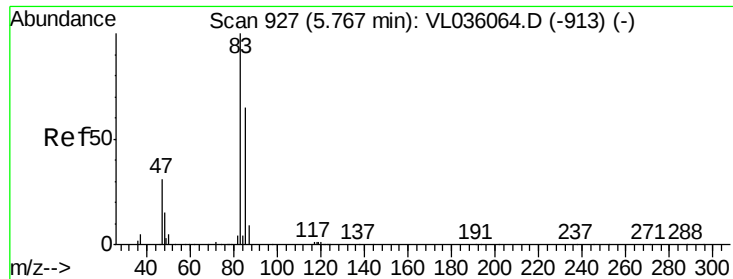
MMDadoda
12/17/2020 3:57:08 PM



#28
Methyl tert-Butyl Ether
Concen: 9.161 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 73 Resp: 1949833
Ion Ratio Lower Upper
73 100
57 22.9 19.2 28.8





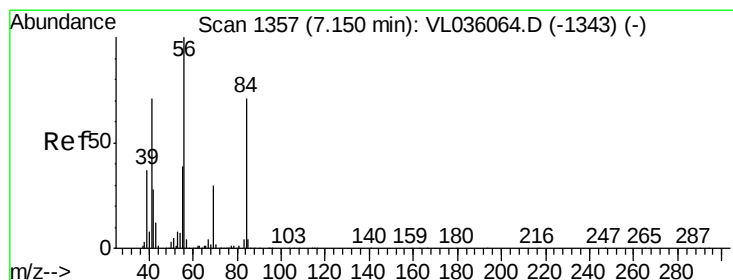
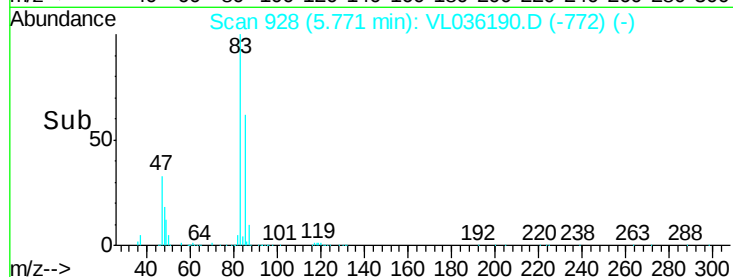
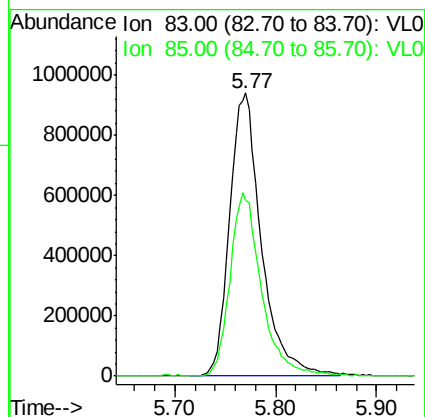
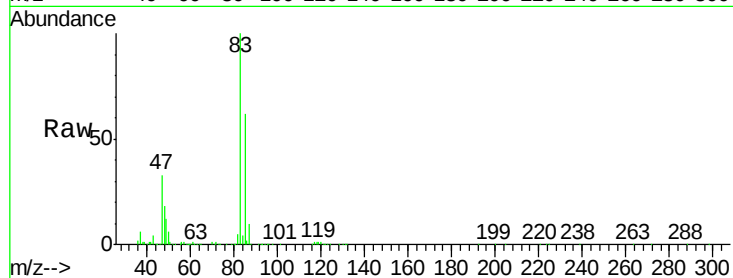
#29
Chloroform
Concen: 10.508 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 83 Resp: 2065816
Ion Ratio Lower Upper
83 100
85 62.3 51.8 77.6

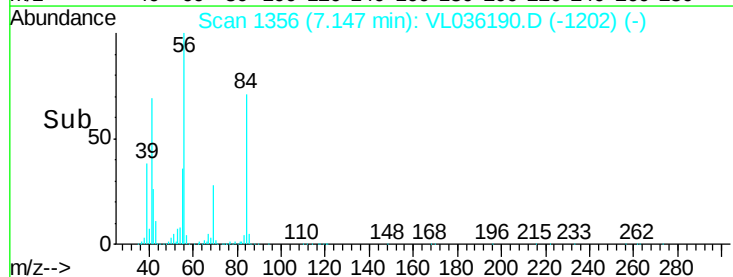
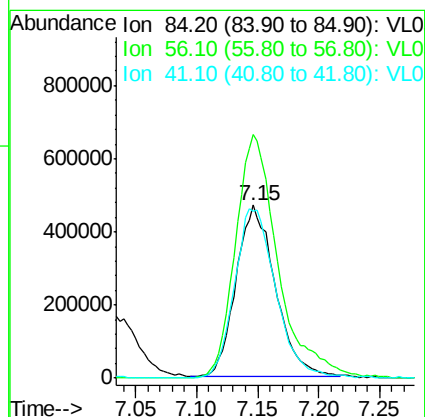
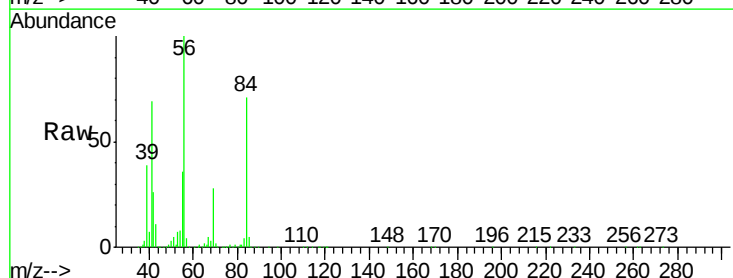
Manual Integrations
APPROVED

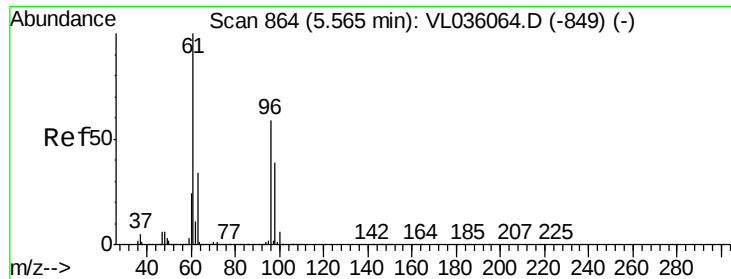
MMDadoda
12/17/2020 3:57:08 PM



#30
Cyclohexane
Concen: 9.547 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 84 Resp: 1049925
Ion Ratio Lower Upper
84 100
56 154.4 128.0 192.0
41 104.3 81.3 121.9





#31

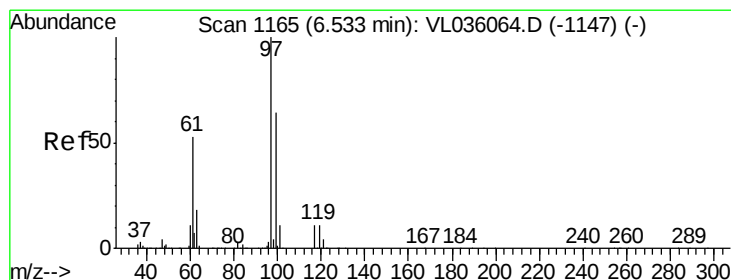
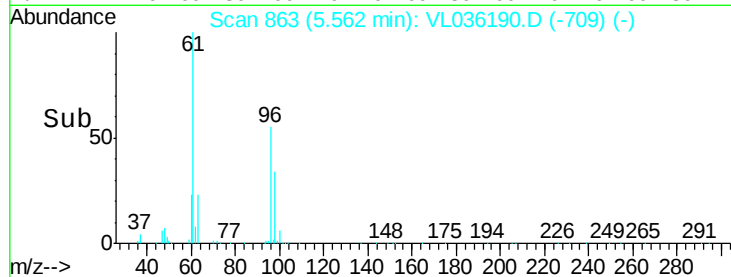
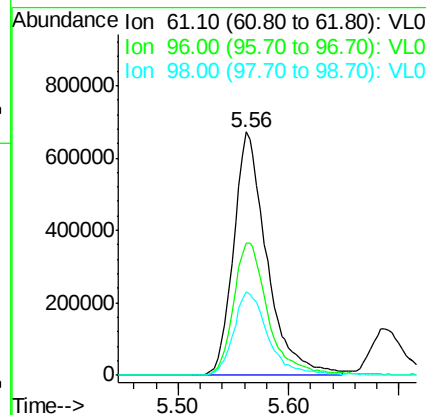
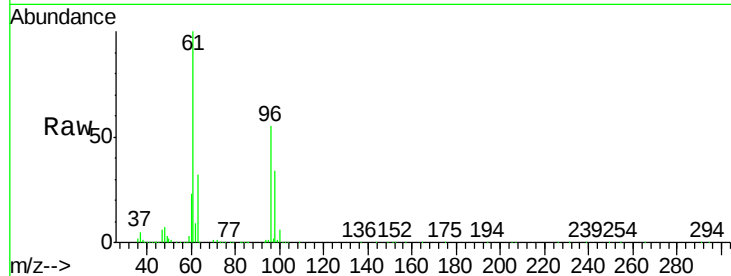
cis-1,2-Dichloroethene
 Concen: 10.312 ppbv
 RT: 5.56 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 61 Resp: 1403342
 Ion Ratio Lower Upper
 61 100
 96 54.5 47.3 70.9
 98 34.3 31.4 47.0

Manual Integrations
 APPROVED

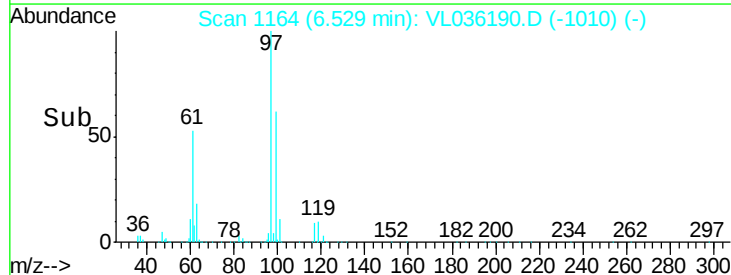
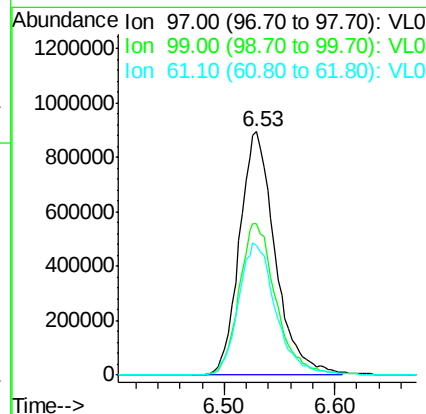
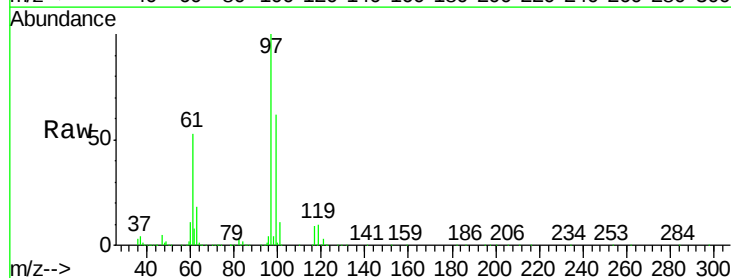
MMDadoda
 12/17/2020 3:57:08 PM

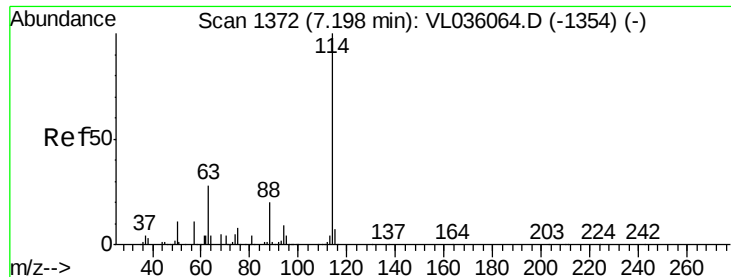


#32

1,1,1-Trichloroethane
 Concen: 9.864 ppbv
 RT: 6.53 min Scan# 1164
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion: 97 Resp: 2001150
 Ion Ratio Lower Upper
 97 100
 99 64.4 52.4 78.6
 61 57.0 43.4 65.0





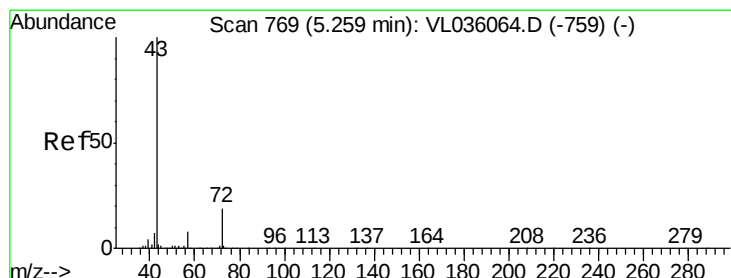
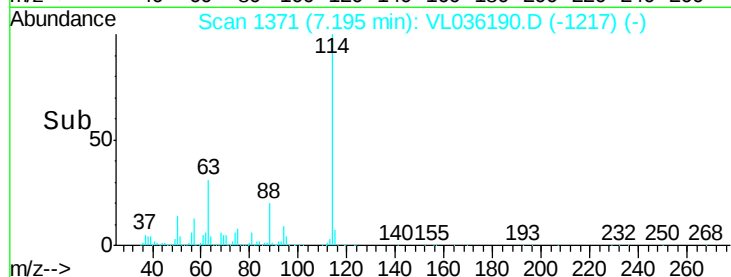
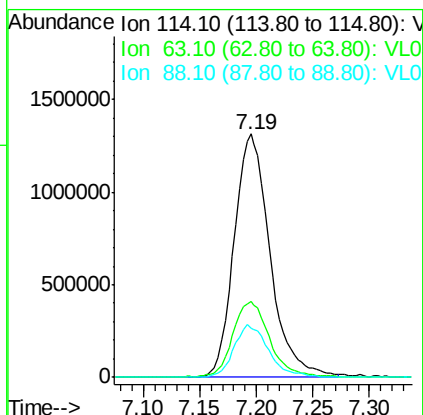
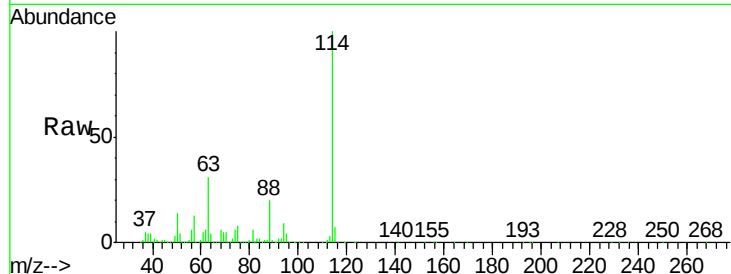
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
114	100		
63	32.6	23.6	35.4
88	21.2	15.8	23.6

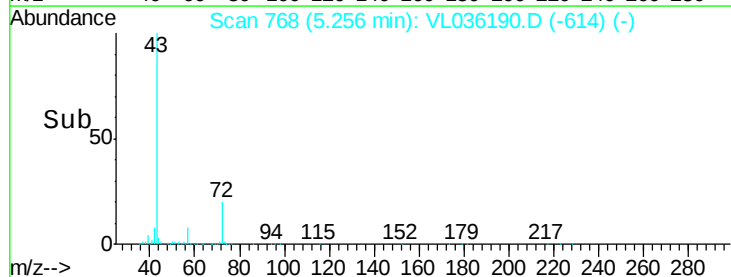
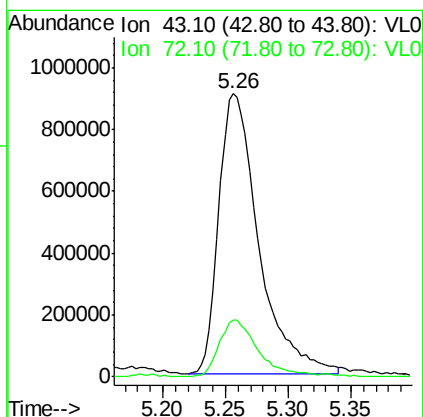
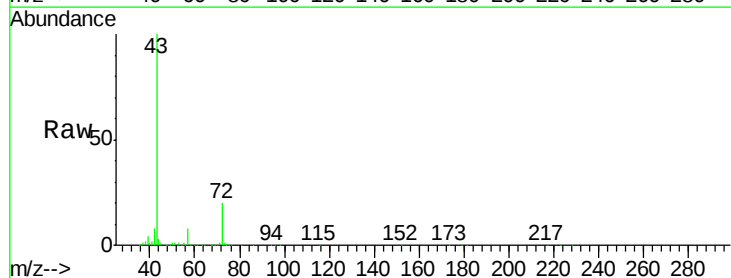
Manual Integrations
 APPROVED

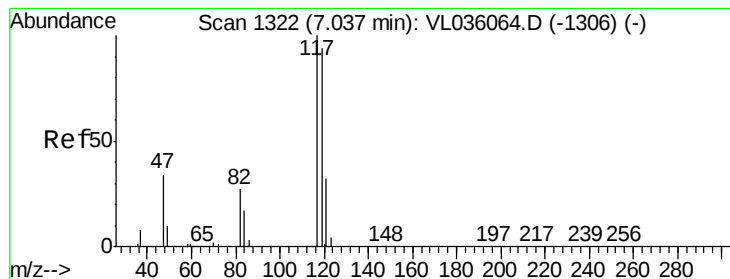
MMDadoda
 12/17/2020 3:57:08 PM



#34
 2-Butanone
 Concen: 10.458 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.5	16.5	24.7





#35

Carbon Tetrachloride

Concen: 11.194 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 117 Resp: 1898617

Ion Ratio Lower Upper

117 100

119 97.7 75.1 112.7

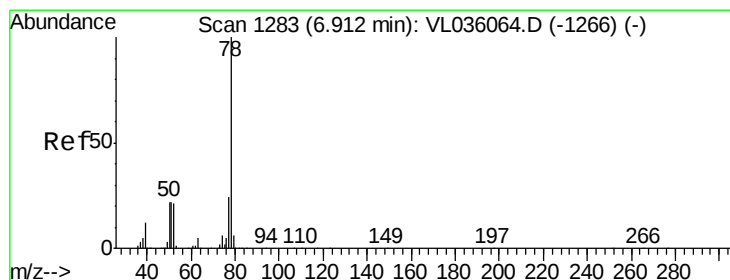
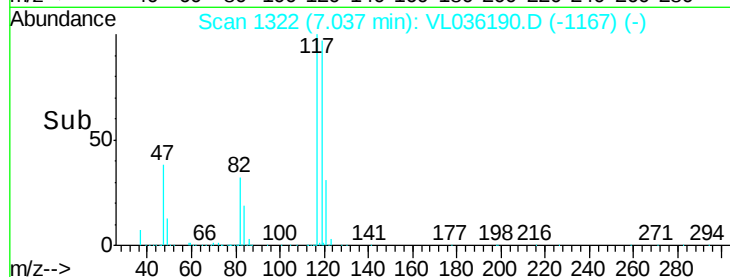
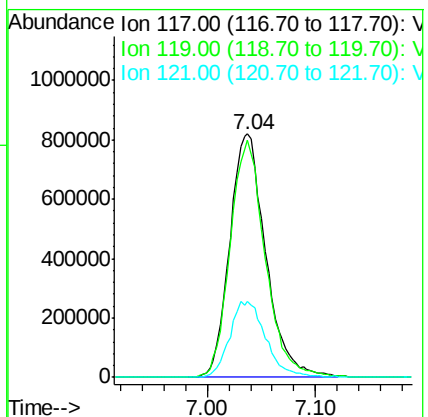
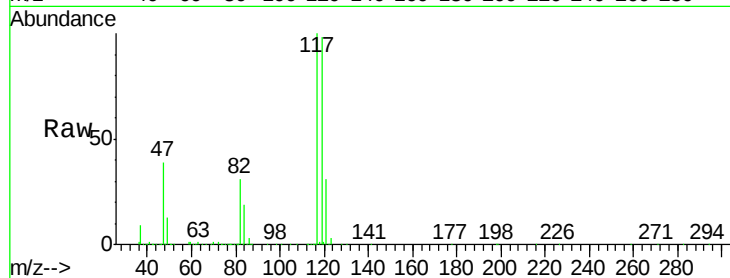
121 31.2 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#36

Benzene

Concen: 10.679 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

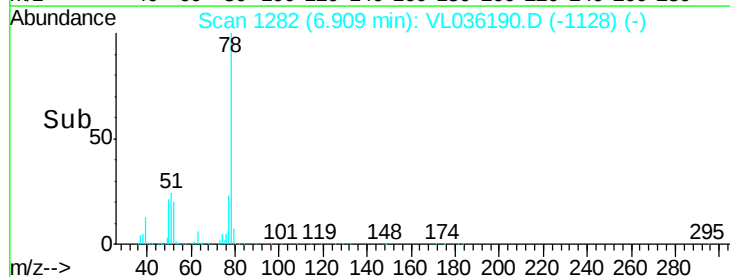
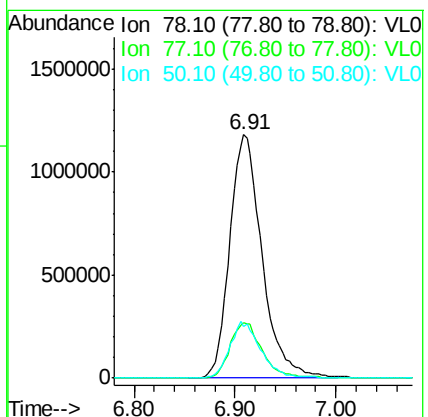
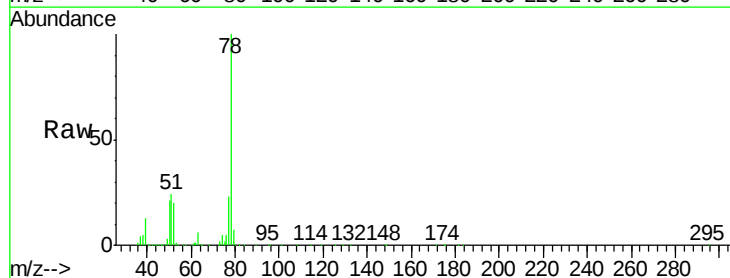
Tgt Ion: 78 Resp: 2632475

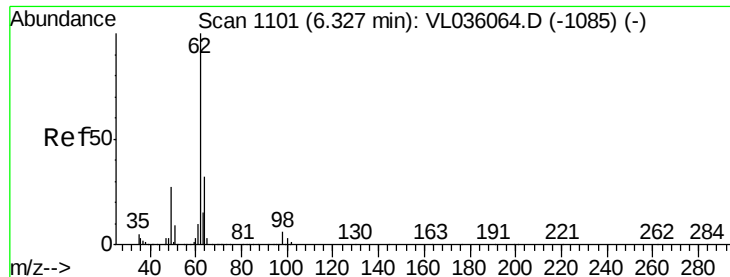
Ion Ratio Lower Upper

78 100

77 22.9 19.4 29.2

50 21.3 17.8 26.8





#37

1,2-Dichloroethane

Concen: 12.232 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 62 Resp: 1747144

Ion Ratio Lower Upper

62 100

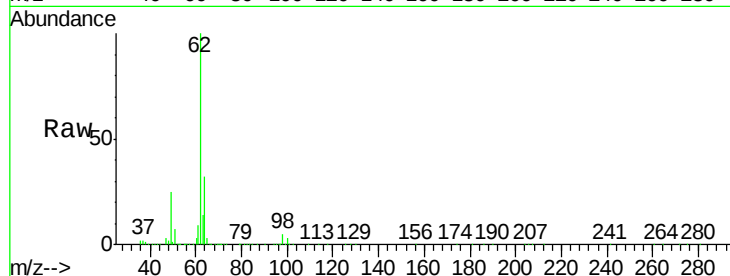
98 4.9 4.6 7.0

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.33

800000

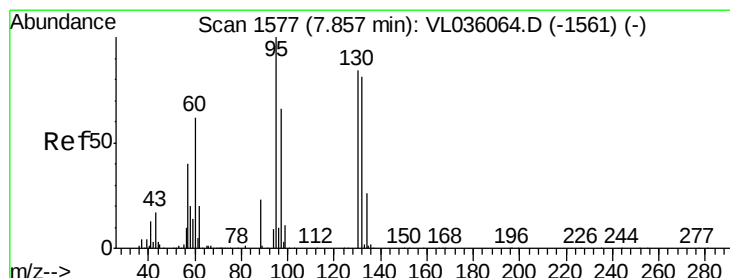
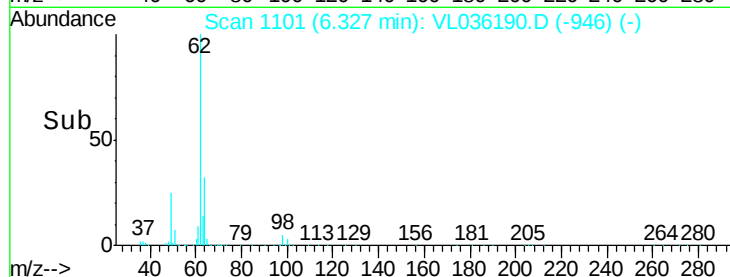
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 8.799 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Tgt Ion: 130 Resp: 810830

Ion Ratio Lower Upper

130 100

95 138.9 95.2 142.8

132 100.6 76.9 115.3

97 85.3 62.3 93.5

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

800000

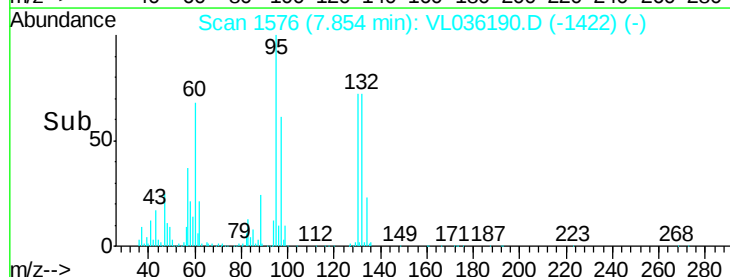
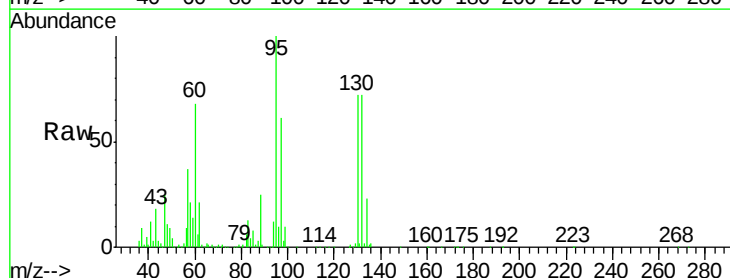
600000

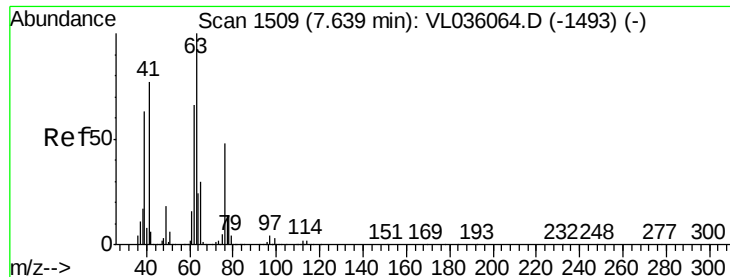
400000

200000

0

Time-->





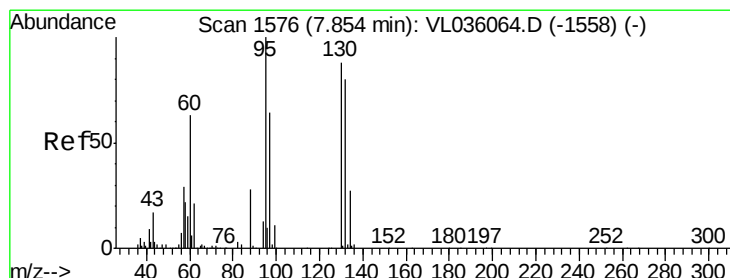
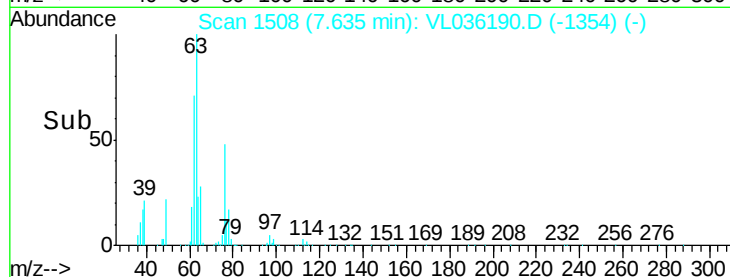
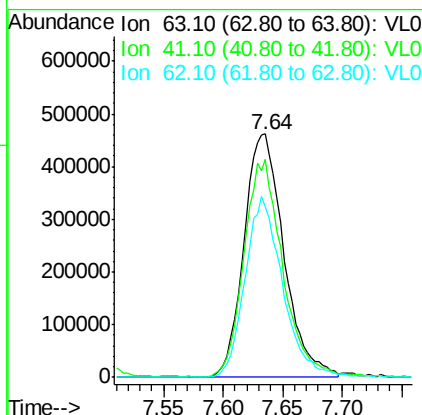
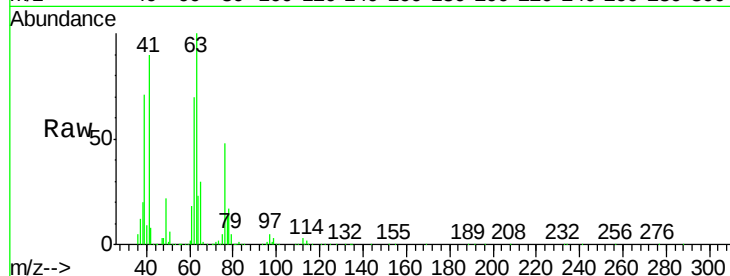
#39
 1,2-Dichloropropane
 Concen: 11.008 ppbv
 RT: 7.64 min Scan# 1508
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
63	100		
41	89.1	61.9	92.9
62	70.2	52.5	78.7

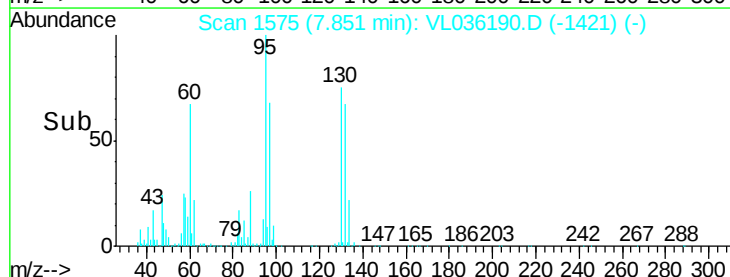
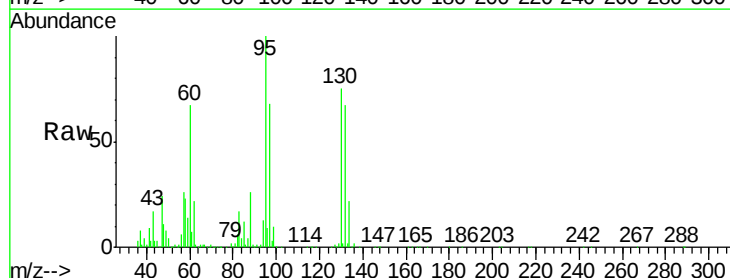
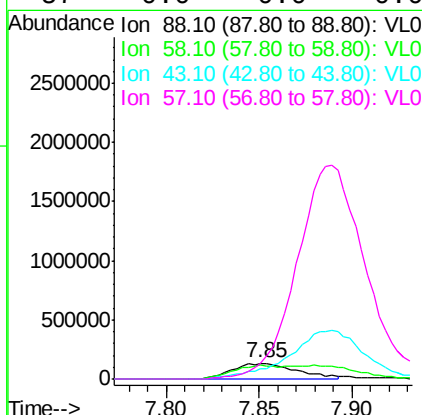
Manual Integrations
 APPROVED

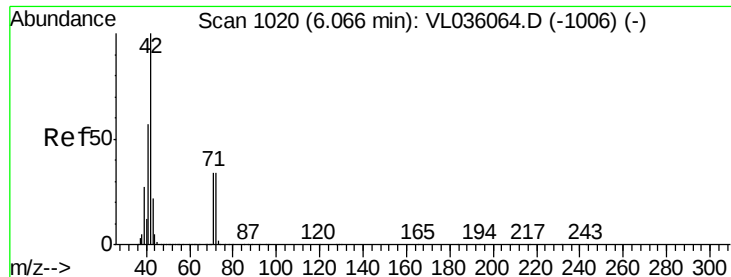
MMDadoda
 12/17/2020 3:57:08 PM



#40
 1,4-Dioxane
 Concen: 10.184 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	61.4	122.6	184.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 10.595 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 42 Resp: 1214403

Ion Ratio Lower Upper

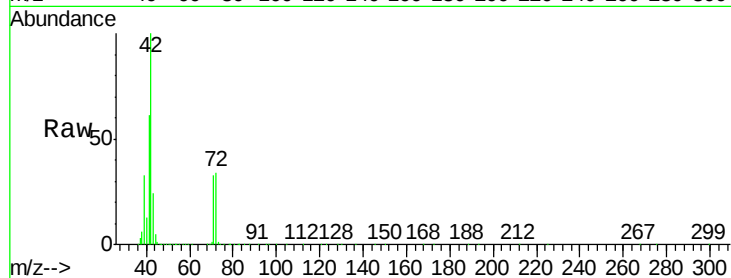
42 100

72 35.6 28.3 42.5

71 34.5 27.3 40.9

Manual Integrations
APPROVED

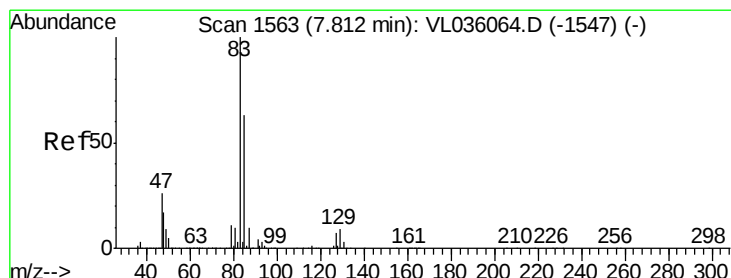
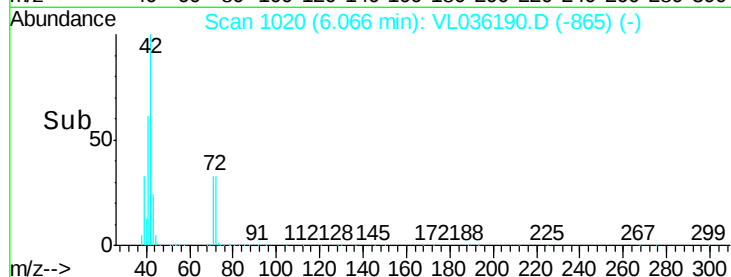
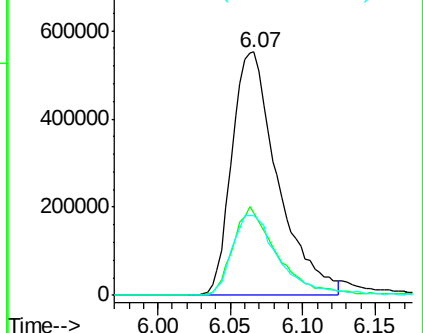
MMDadoda
12/17/2020 3:57:08 PM



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 11.762 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

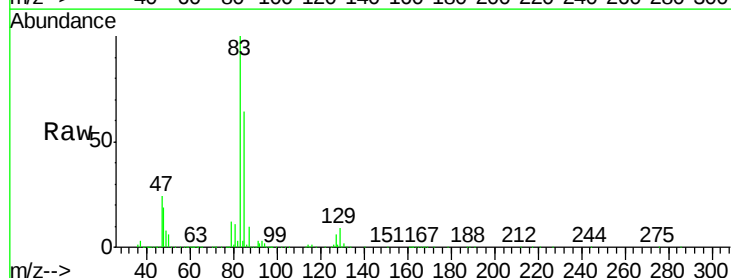
Tgt Ion: 83 Resp: 2238768

Ion Ratio Lower Upper

83 100

85 64.1 50.2 75.2

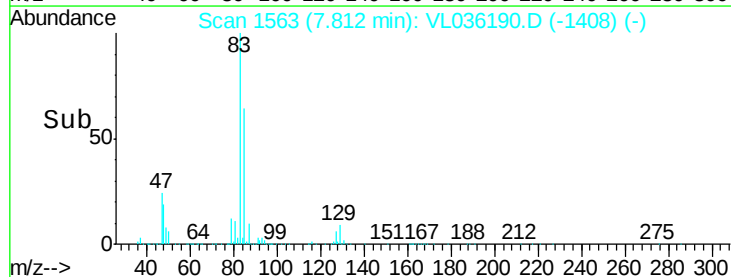
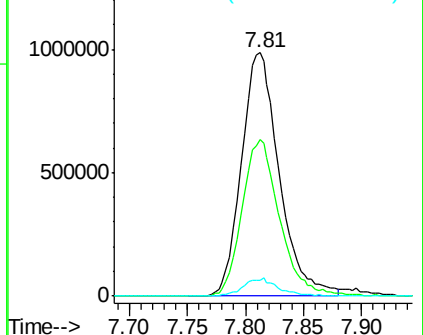
127 6.5 5.5 8.3

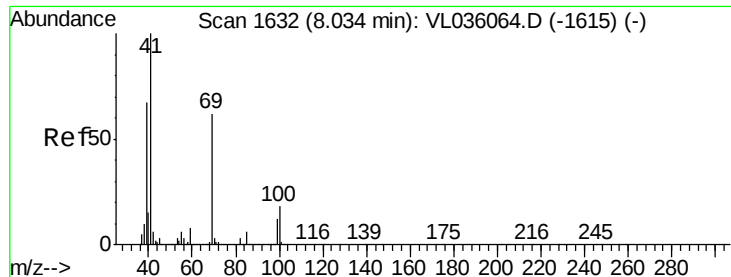


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





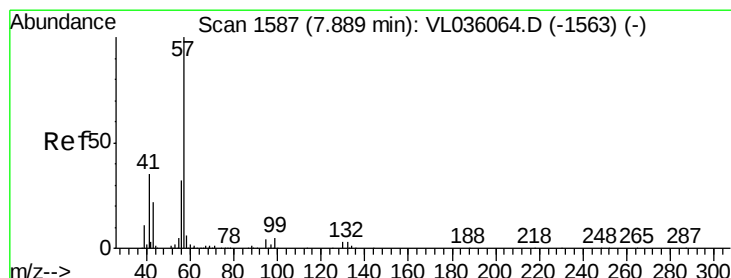
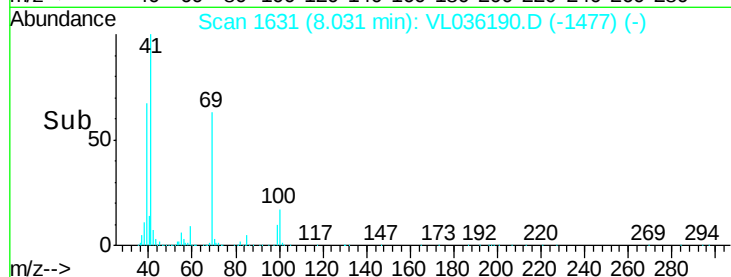
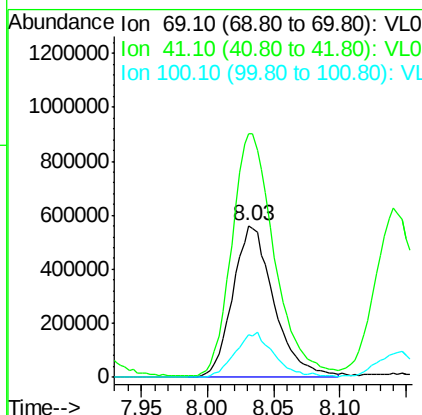
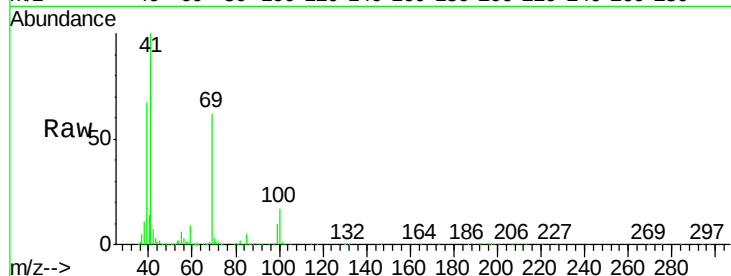
#43
Methyl Methacrylate
Concen: 11.430 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 69 Resp: 1208676
Ion Ratio Lower Upper
69 100
41 167.0 133.0 199.6
100 28.6 25.4 38.0

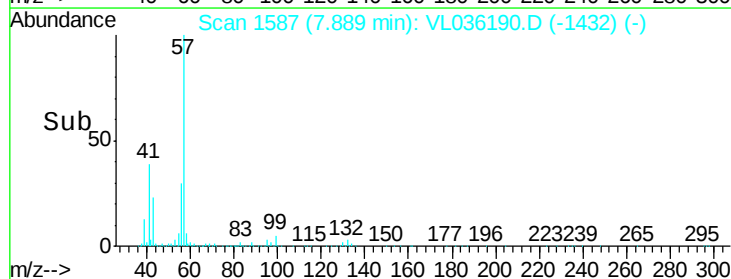
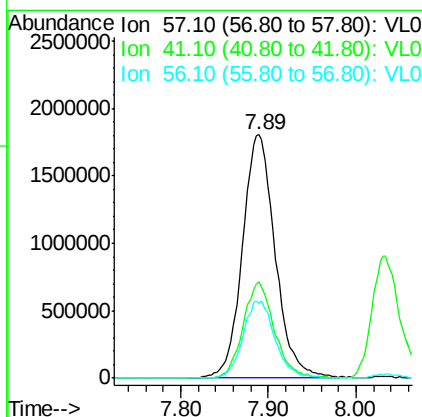
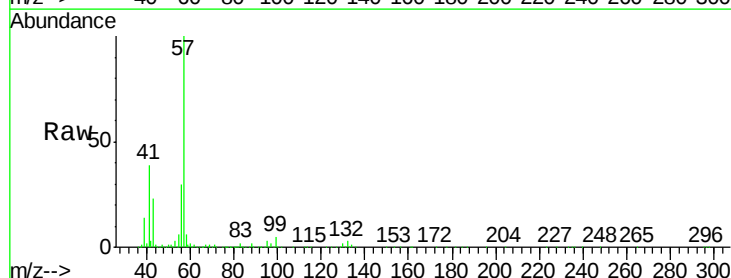
Manual Integrations
APPROVED

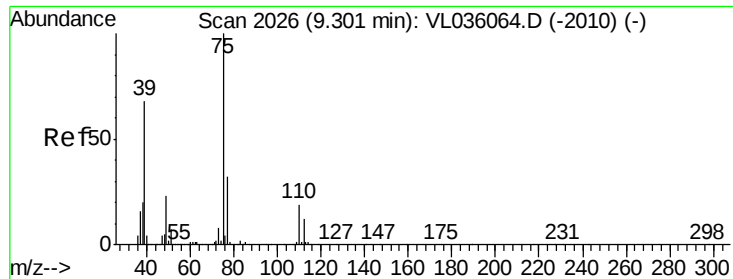
MMDadoda
12/17/2020 3:57:08 PM



#44
2,2,4-Trimethylpentane
Concen: 10.499 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 57 Resp: 4686822
Ion Ratio Lower Upper
57 100
41 37.5 28.9 43.3
56 31.2 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 11.728 ppbv

RT: 9.30 min Scan# 2026

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 75 Resp: 1274126

Ion Ratio Lower Upper

75 100

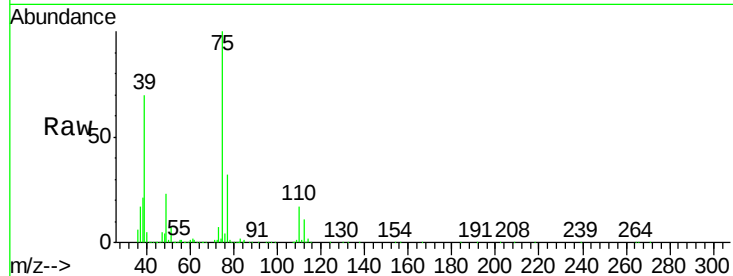
77 32.1 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.30

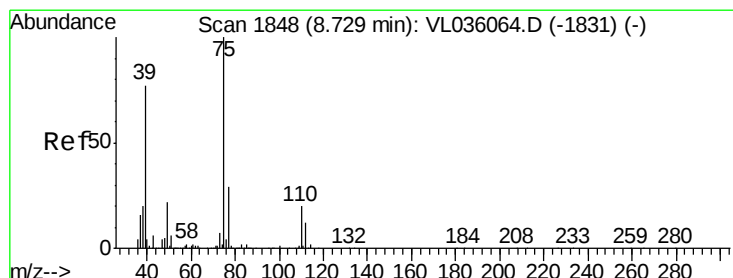
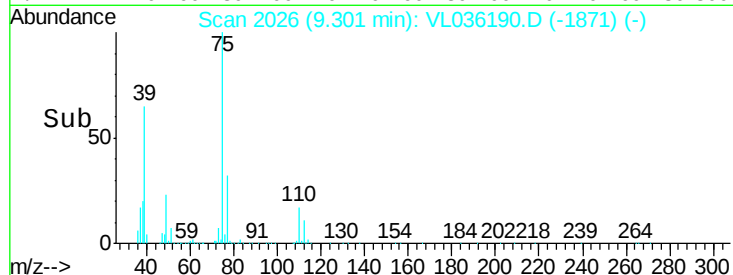
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.150 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.01 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

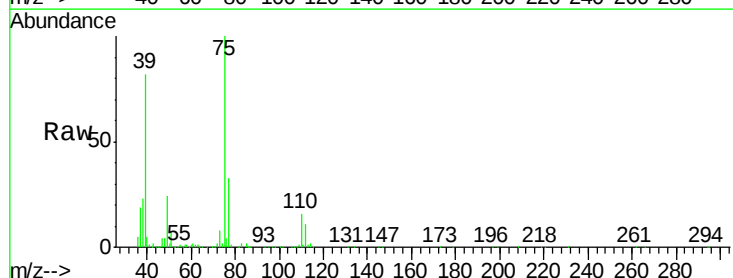
Tgt Ion: 75 Resp: 1518355

Ion Ratio Lower Upper

75 100

39 81.6 61.6 92.4

77 32.7 23.0 34.6



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

8.72

800000

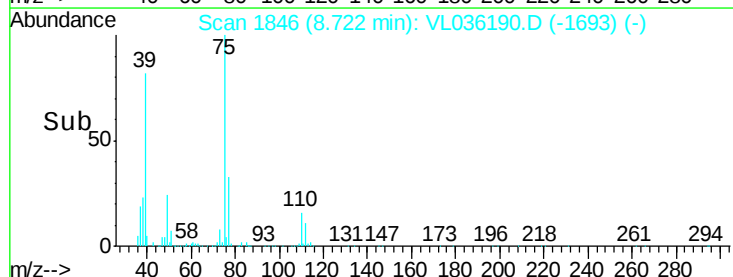
600000

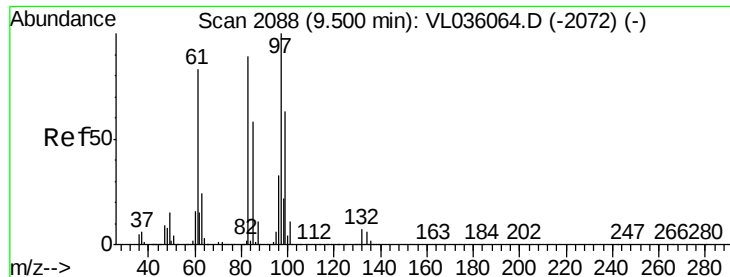
400000

200000

0

Time-->





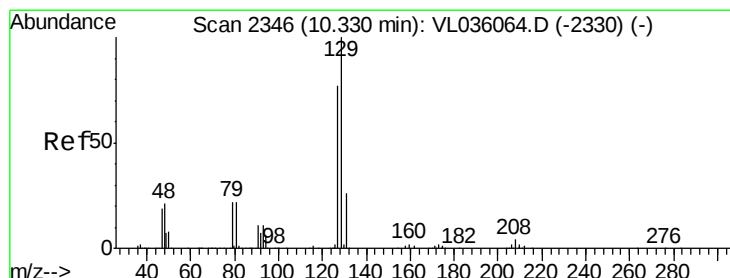
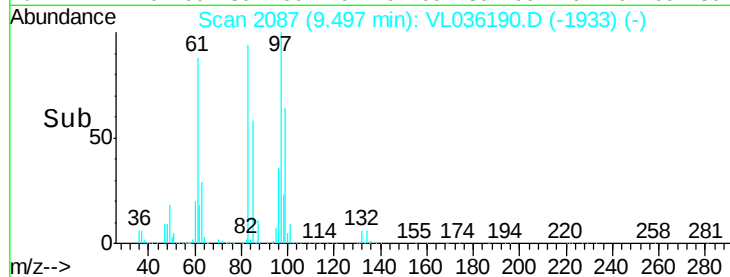
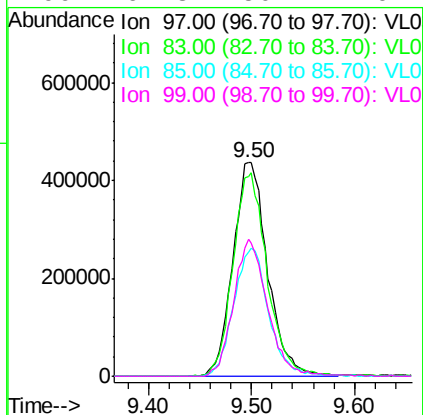
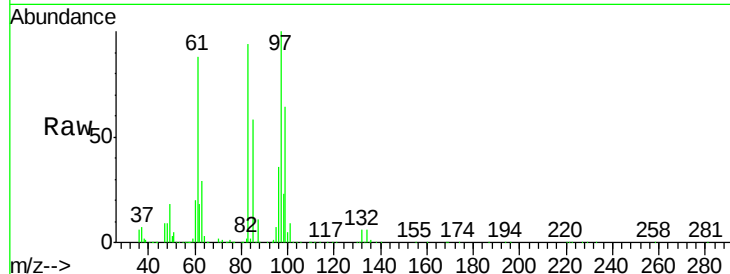
#47
 1,1,2-Trichloroethane
 Concen: 10.885 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 1019420
 Ion Ratio Lower Upper
 97 100
 83 93.6 71.4 107.2
 85 58.3 46.6 70.0
 99 64.3 50.7 76.1

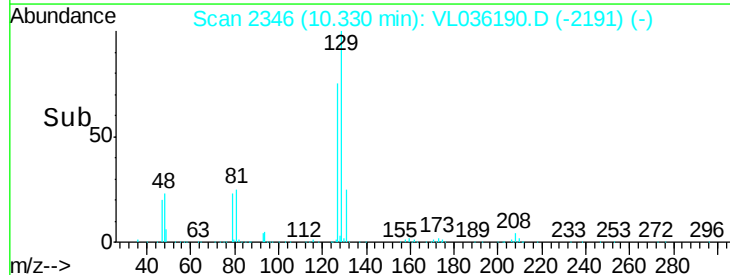
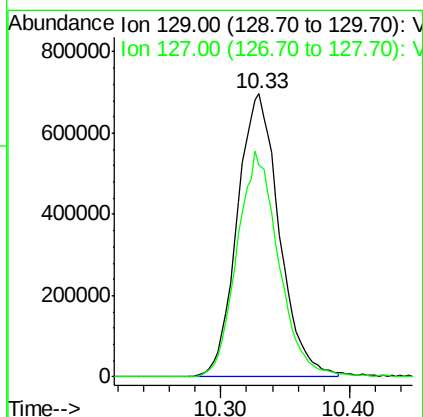
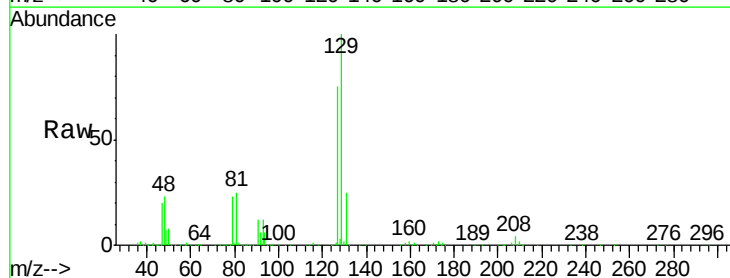
Manual Integrations
 APPROVED

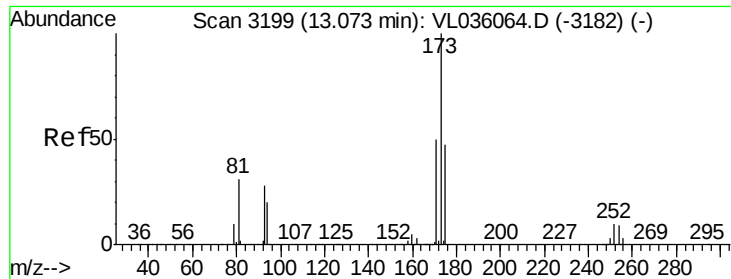
MMDadoda
 12/17/2020 3:57:08 PM



#48
 Dibromochloromethane
 Concen: 11.172 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion: 129 Resp: 1580033
 Ion Ratio Lower Upper
 129 100
 127 79.2 39.0 117.0





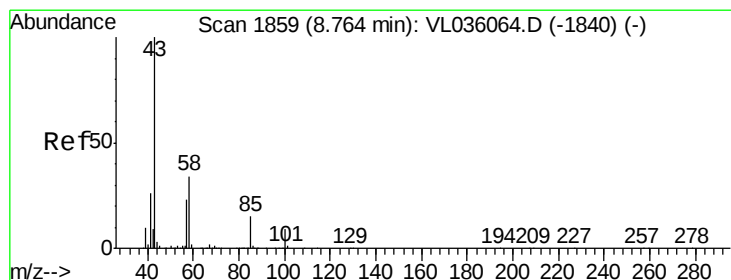
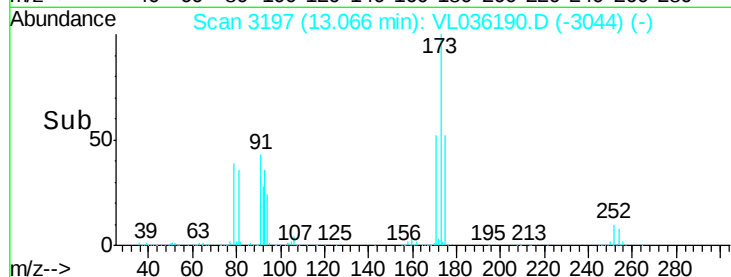
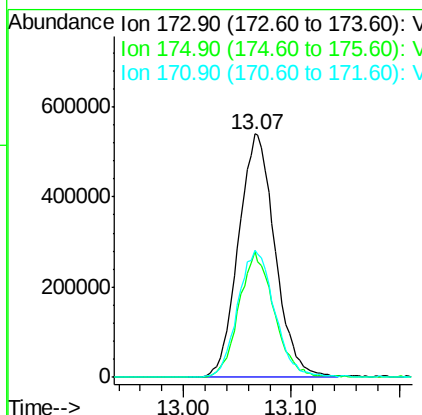
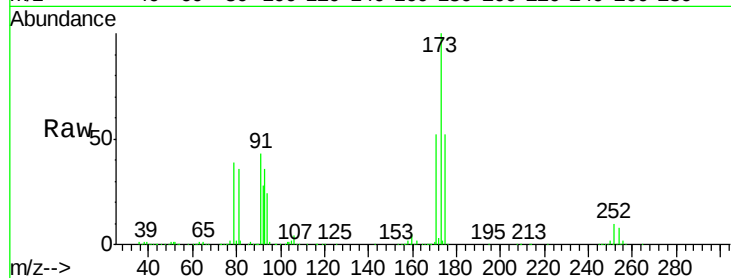
#49
Bromoform
Concen: 11.459 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.01 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:173 Resp: 1275513
Ion Ratio Lower Upper
173 100
175 49.9 39.8 59.6
171 52.7 42.5 63.7

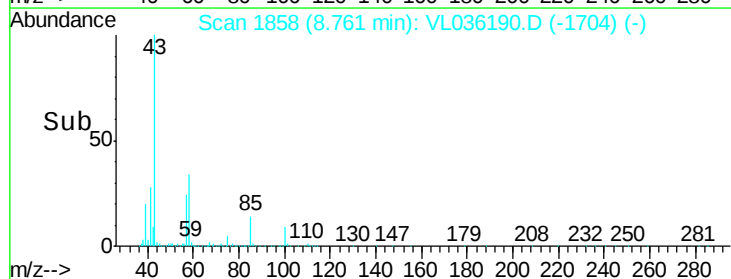
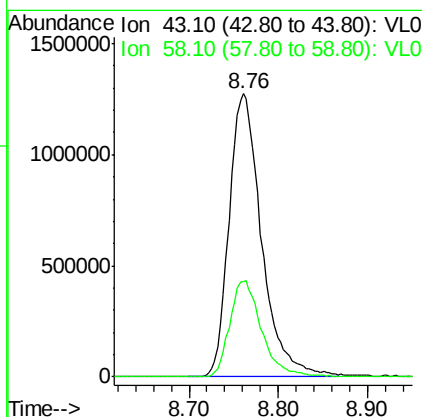
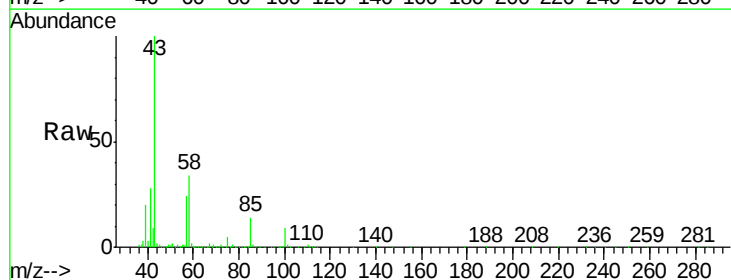
Manual Integrations
APPROVED

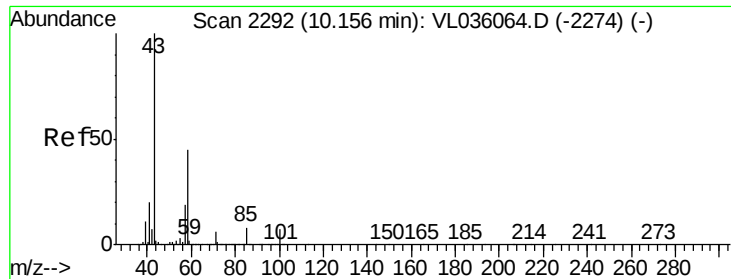
MMDadoda
12/17/2020 3:57:08 PM



#50
4-Methyl-2-Pentanone
Concen: 11.198 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 43 Resp: 3221989
Ion Ratio Lower Upper
43 100
58 33.6 27.4 41.2





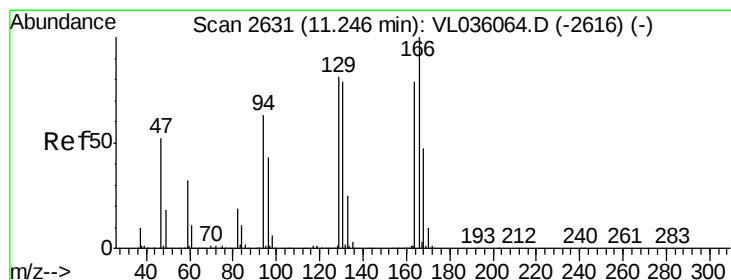
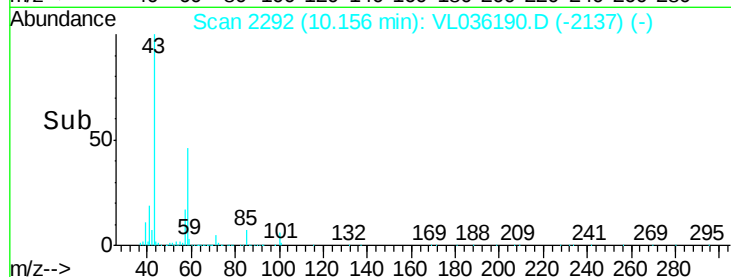
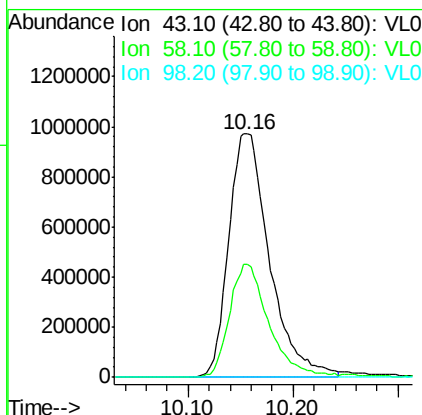
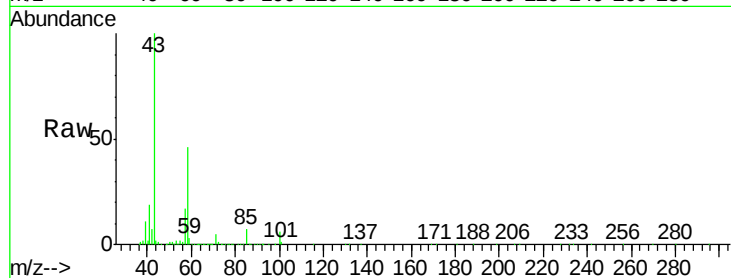
#51
2-Hexanone
Concen: 11.670 ppbv m
RT: 10.16 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 2624849
Ion Ratio Lower Upper
43 100
58 46.0 38.7 58.1
98 0.1 0.1 0.1

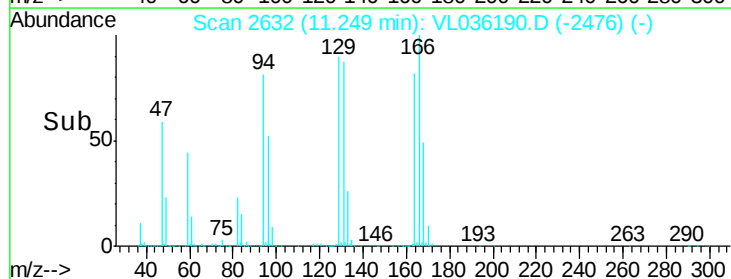
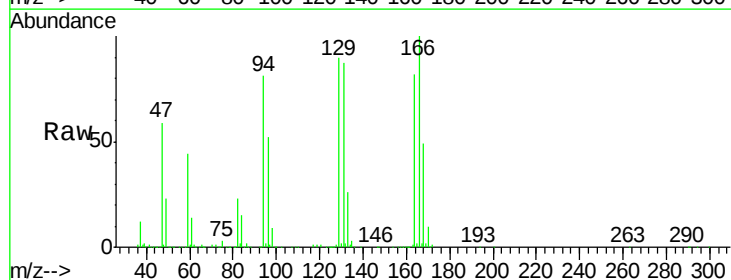
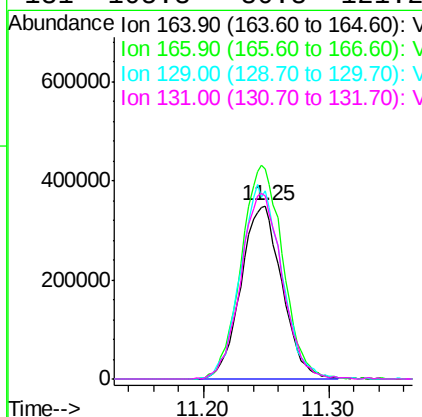
Manual Integrations
APPROVED

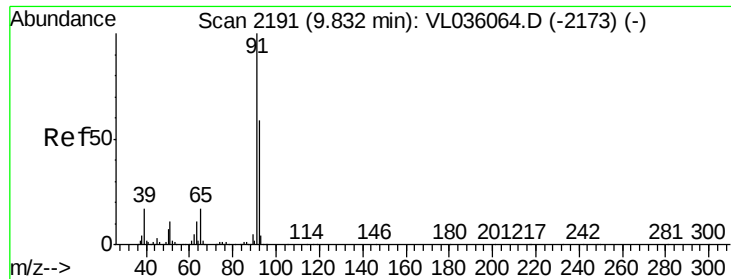
MMDadoda
12/17/2020 3:57:08 PM



#52
Tetrachloroethene
Concen: 8.867 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 164 Resp: 791252
Ion Ratio Lower Upper
164 100
166 121.4 101.9 152.9
129 108.8 82.1 123.1
131 105.3 80.8 121.2





#53

Toluene

Concen: 10.589 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 2931119

Ion Ratio Lower Upper

91 100

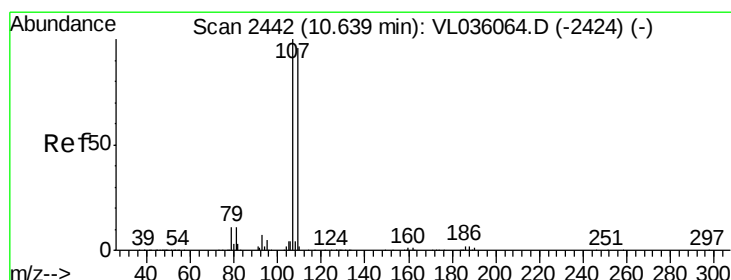
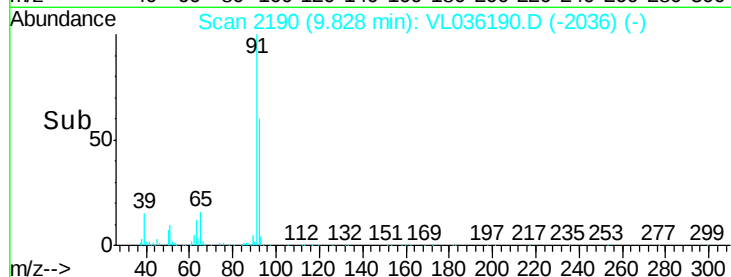
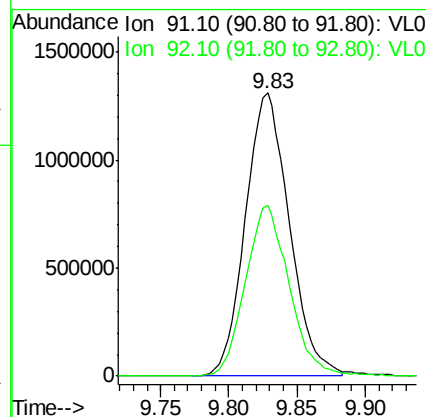
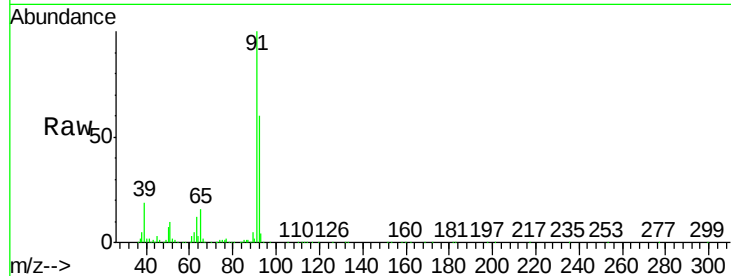
92 60.4 48.2 72.2

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#54

1,2-Dibromoethane

Concen: 10.714 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL036190.D

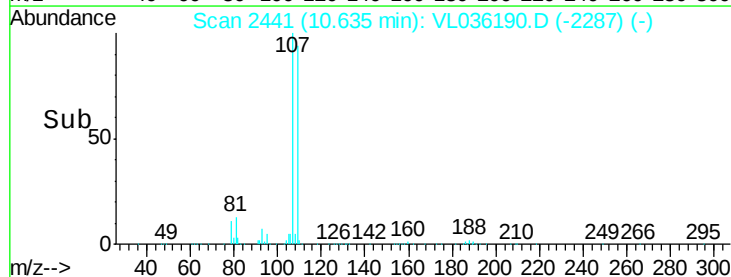
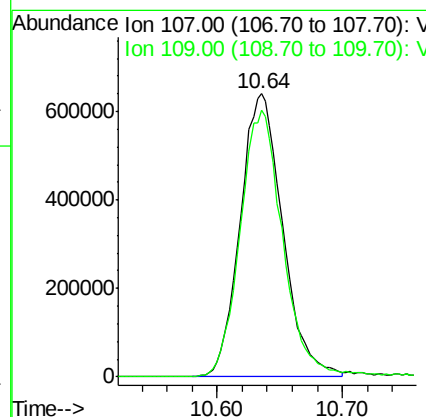
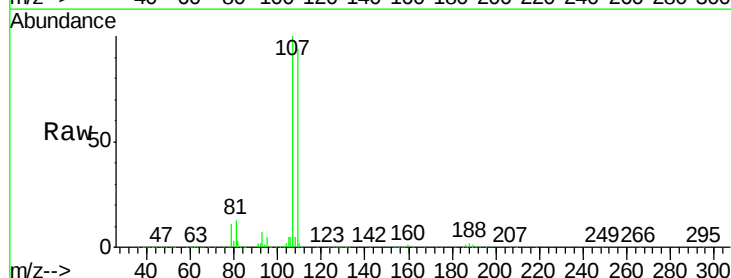
Acq: 17 Dec 2020 6:21

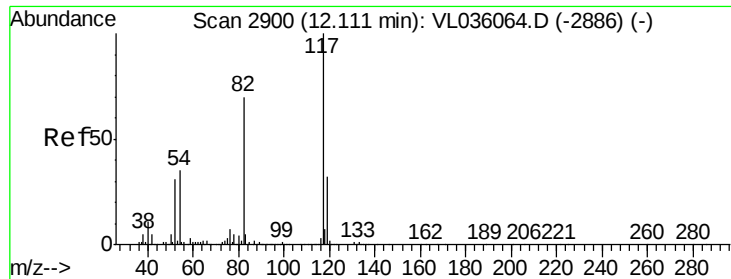
Tgt Ion: 107 Resp: 1504072

Ion Ratio Lower Upper

107 100

109 94.2 76.6 115.0





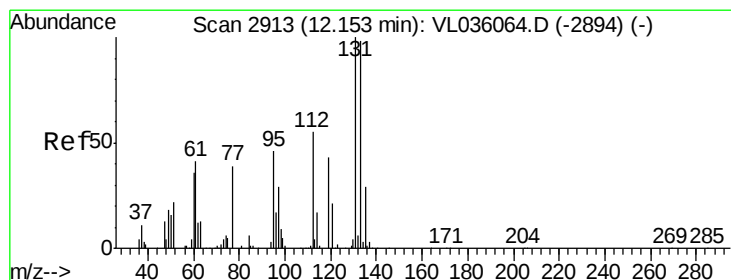
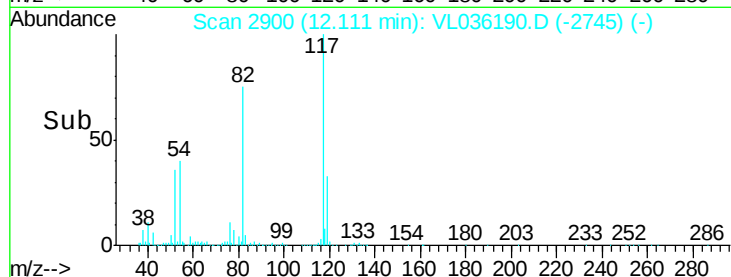
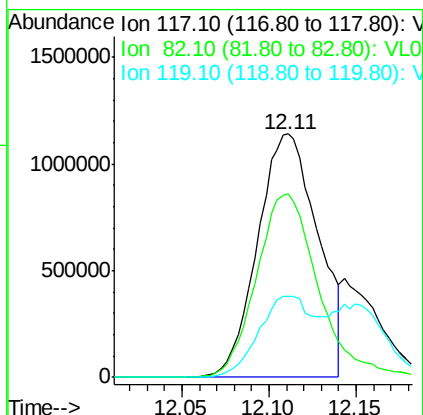
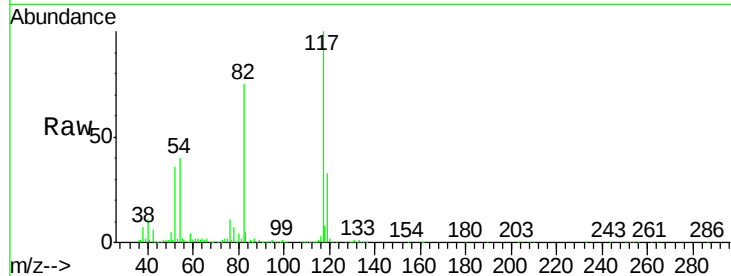
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:117 Resp: 2760600
Ion Ratio Lower Upper
117 100
82 77.7 0.0 0.0#
119 58.6 0.0 0.0#

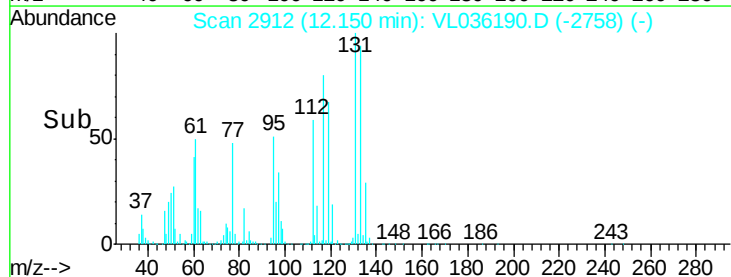
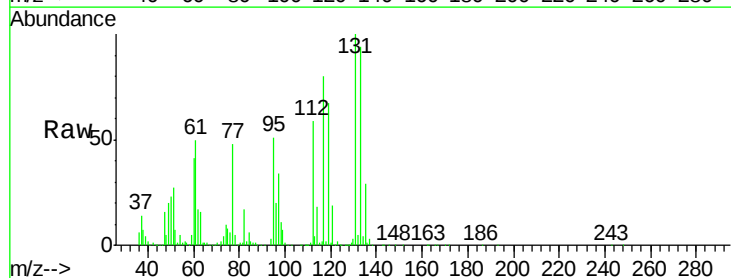
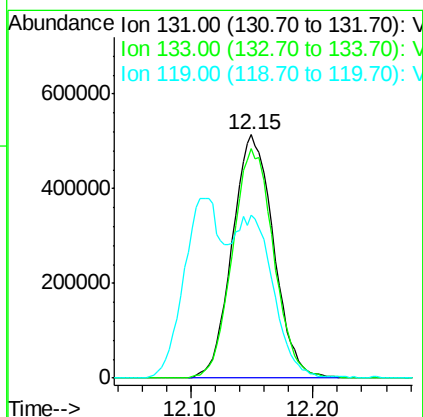
Manual Integrations
APPROVED

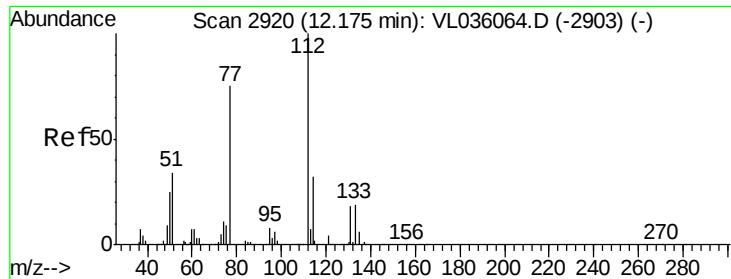
MMDadoda
12/17/2020 3:57:08 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.444 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion:131 Resp: 1195515
Ion Ratio Lower Upper
131 100
133 94.8 77.7 116.5
119 59.1 51.6 77.4





#57

Chlorobenzene

Concen: 10.261 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.01 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 112 Resp: 1988688

Ion Ratio Lower Upper

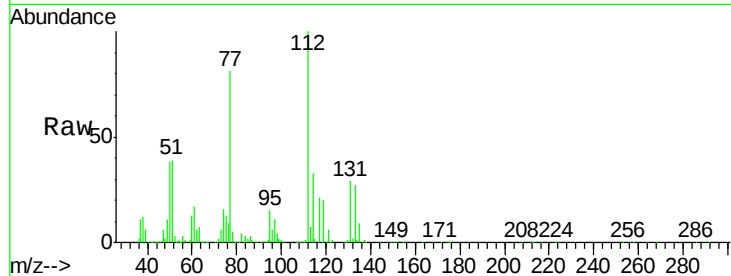
112 100

77 79.3 60.5 90.7

114 32.4 29.2 35.6

Manual Integrations
APPROVED

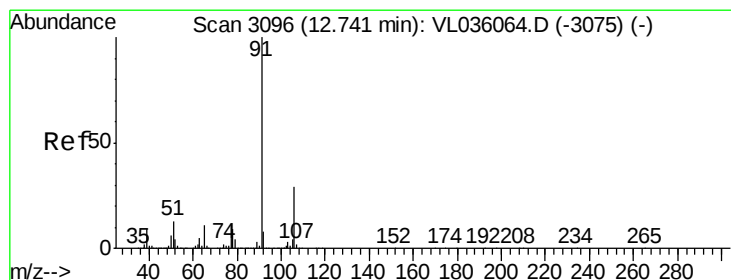
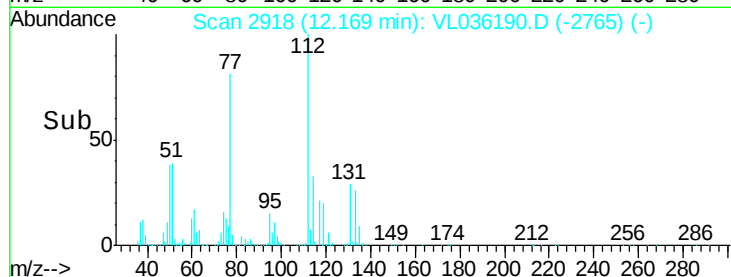
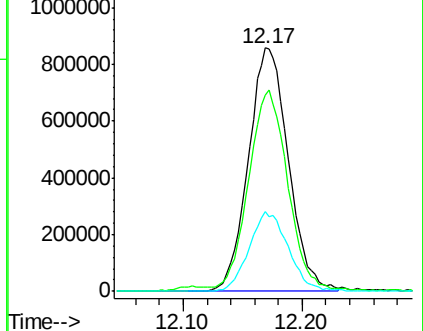
MMDadoda
12/17/2020 3:57:08 PM



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: 10.663 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.01 min

Lab File: VL036190.D

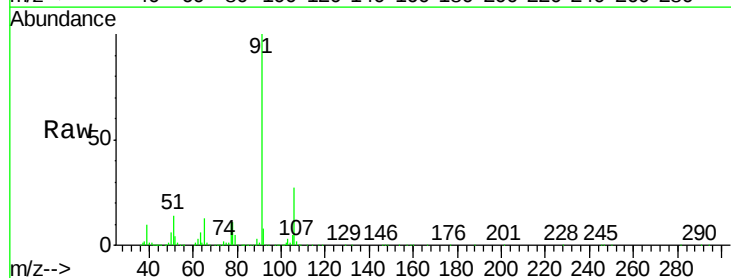
Acq: 17 Dec 2020 6:21

Tgt Ion: 91 Resp: 4033919

Ion Ratio Lower Upper

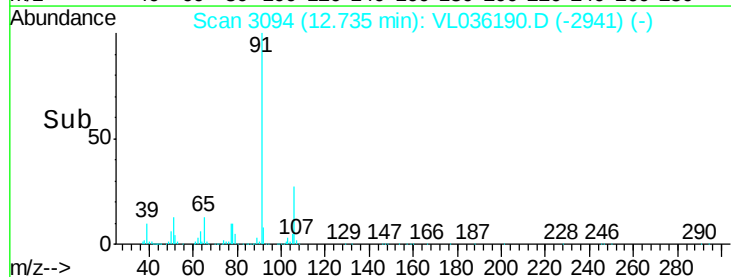
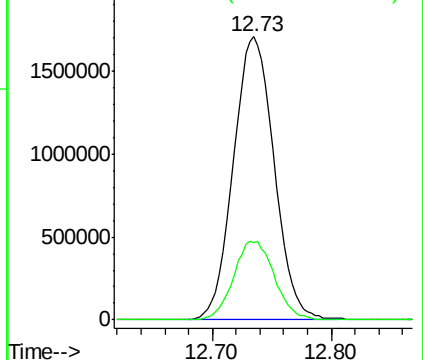
91 100

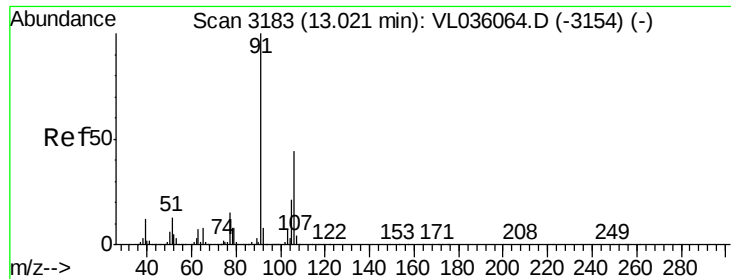
106 27.4 23.0 34.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





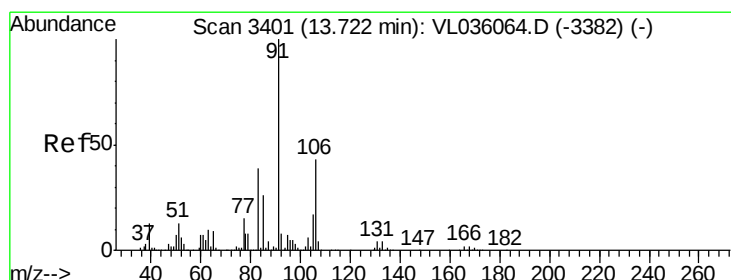
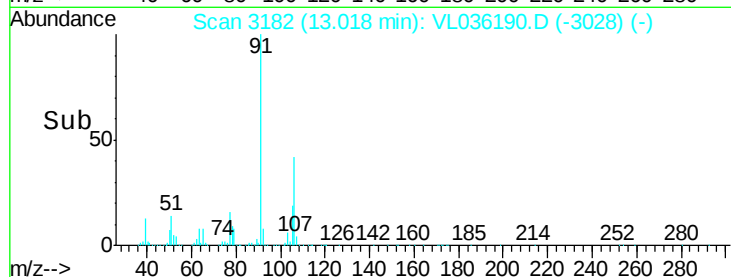
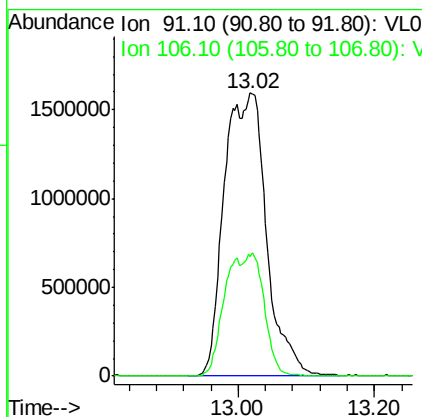
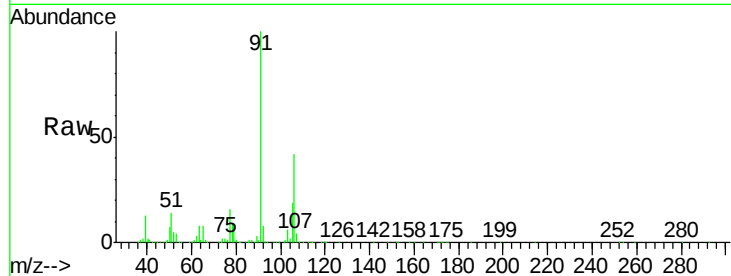
#59
m/p-Xylene
Concen: 21.525 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 91 Resp: 6858944
Ion Ratio Lower Upper
91 100
106 40.2 33.6 50.4

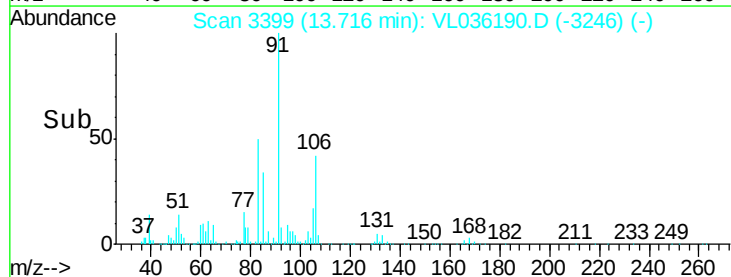
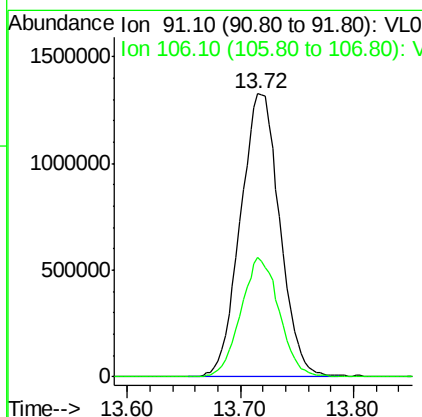
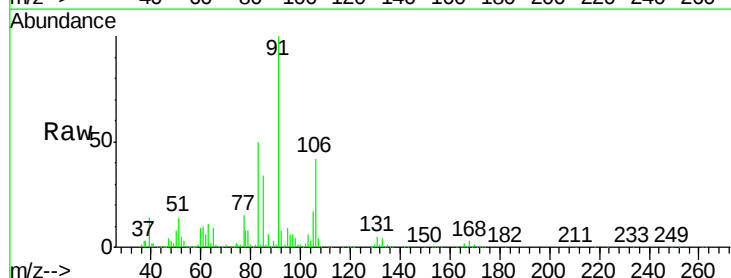
Manual Integrations
APPROVED

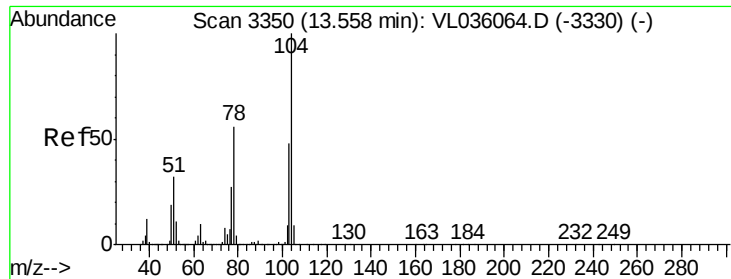
MMDadoda
12/17/2020 3:57:08 PM



#60
o-Xylene
Concen: 10.686 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 91 Resp: 3208185
Ion Ratio Lower Upper
91 100
106 41.0 21.6 64.6





#61

Styrene

Concen: 11.243 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.01 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:104 Resp: 2166991

Ion Ratio Lower Upper

104 100

78 63.7 45.8 68.8

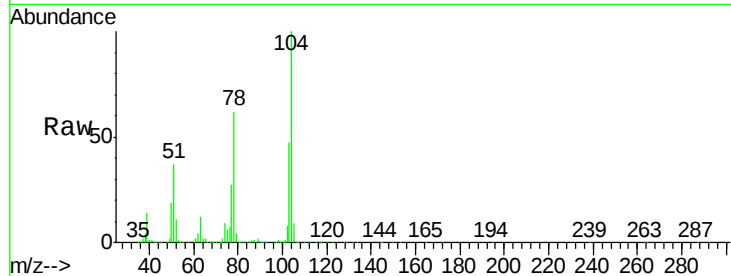
103 48.2 38.6 57.8

Manual Integrations

APPROVED

MMDadoda

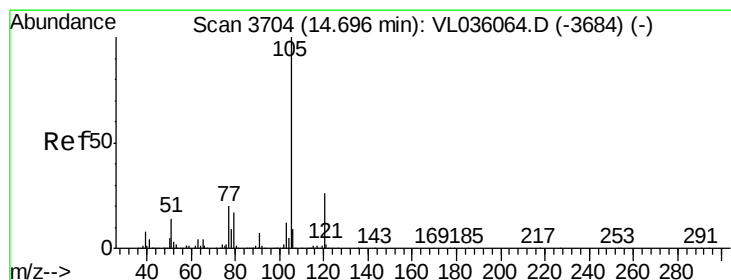
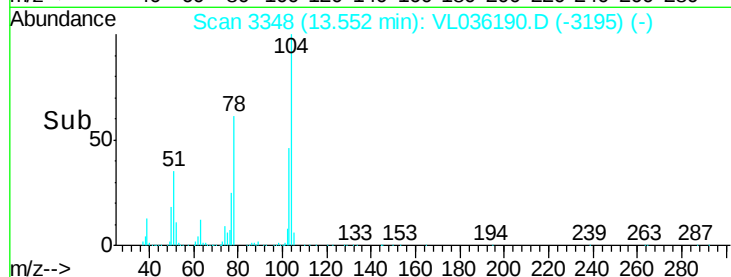
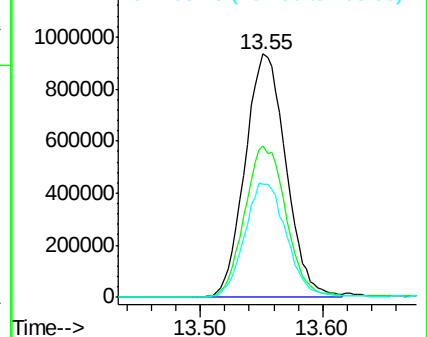
12/17/2020 3:57:08 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.350 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.00 min

Lab File: VL036190.D

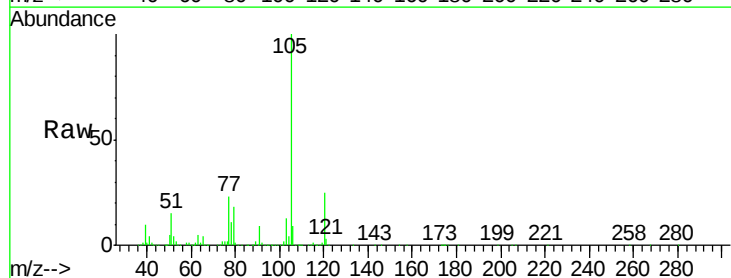
Acq: 17 Dec 2020 6:21

Tgt Ion:105 Resp: 4606013

Ion Ratio Lower Upper

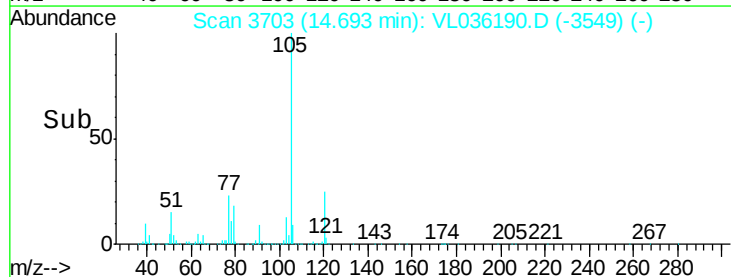
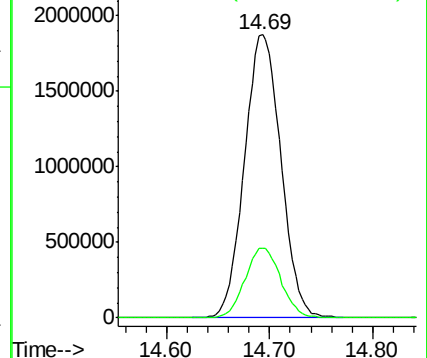
105 100

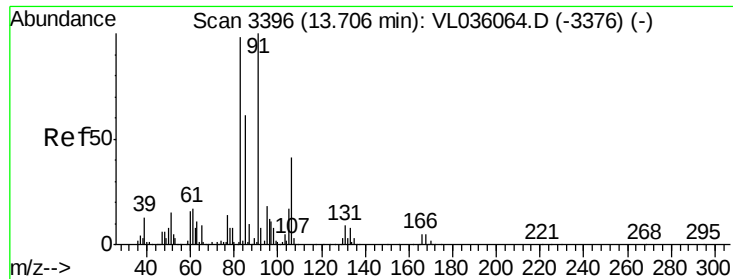
120 24.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





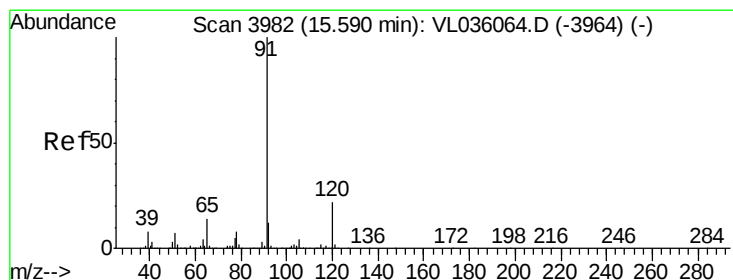
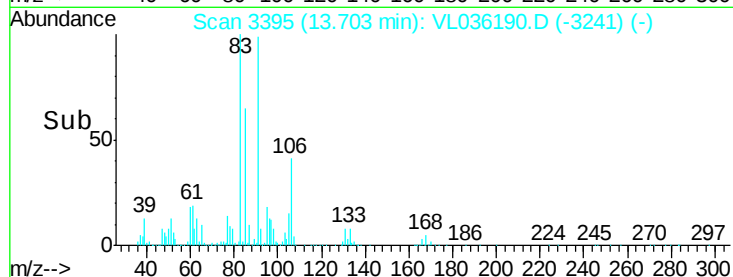
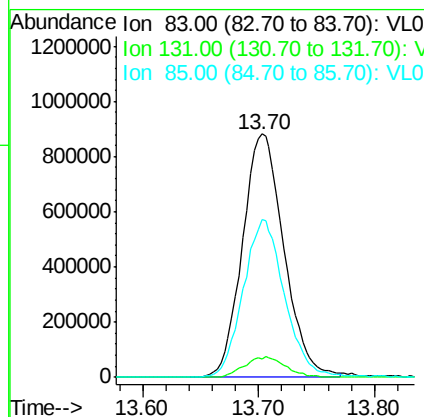
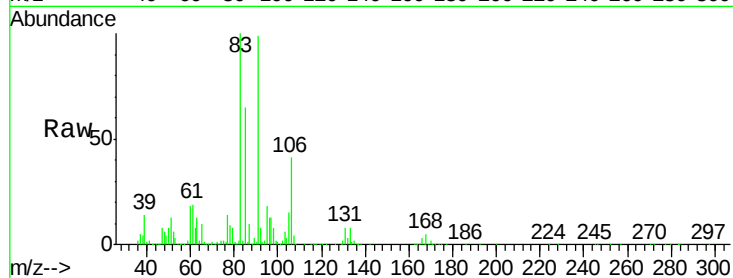
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.886 ppbv
 RT: 13.70 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 83 Resp: 2201097
 Ion Ratio Lower Upper
 83 100
 131 8.5 4.6 13.8
 85 65.1 32.5 97.5

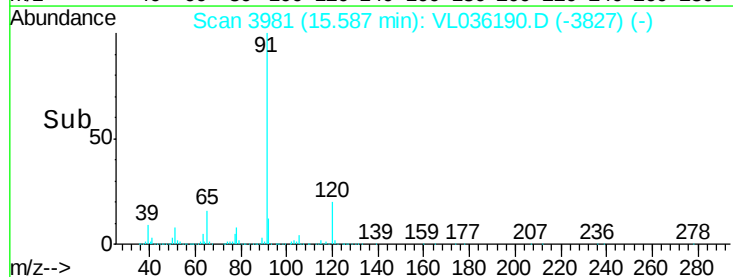
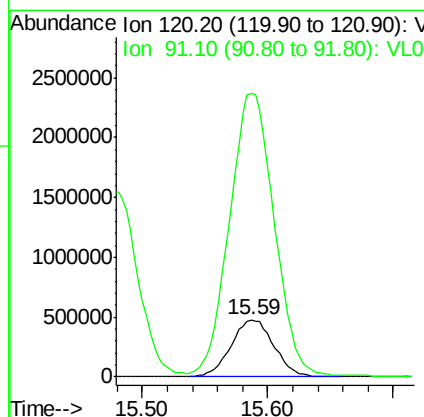
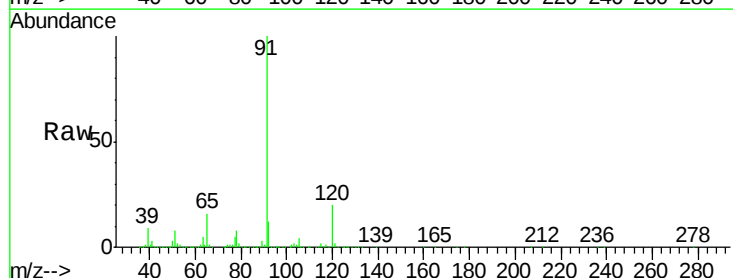
Manual Integrations
 APPROVED

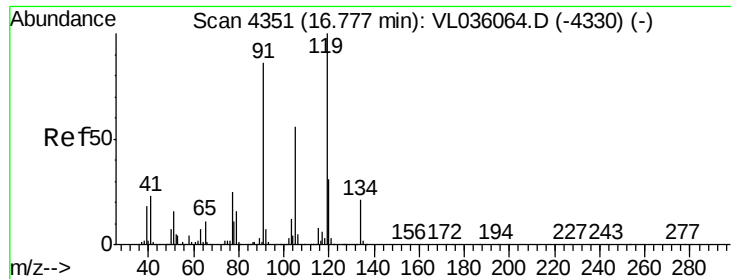
MMDadoda
 12/17/2020 3:57:08 PM



#64
 n-propylbenzene
 Concen: 10.454 ppbv
 RT: 15.59 min Scan# 3981
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion: 120 Resp: 1119241
 Ion Ratio Lower Upper
 120 100
 91 526.8 388.9 583.3





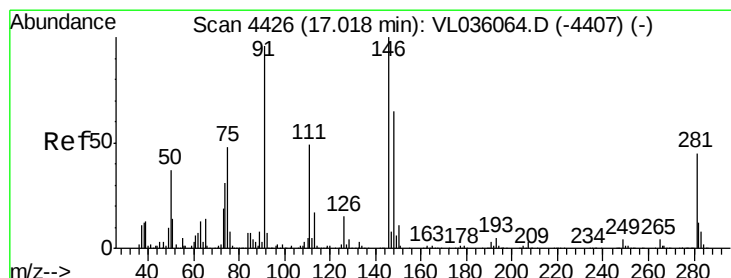
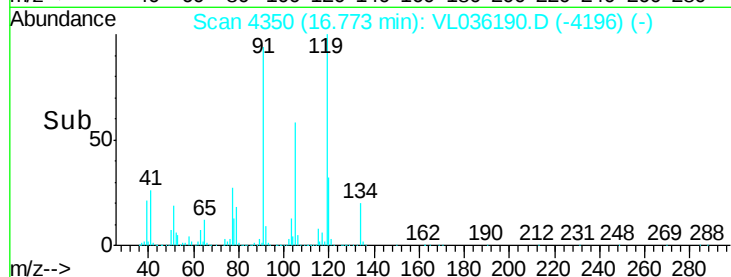
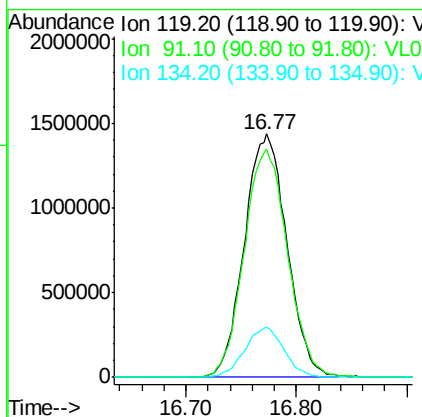
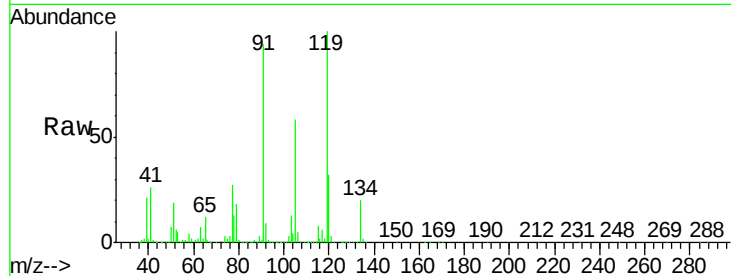
#65
tert-Butylbenzene
Concen: 10.545 ppbv
RT: 16.77 min Scan# 4350
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 119 Resp: 3841071
Ion Ratio Lower Upper
119 100
91 96.1 70.2 105.2
134 19.1 15.8 23.6

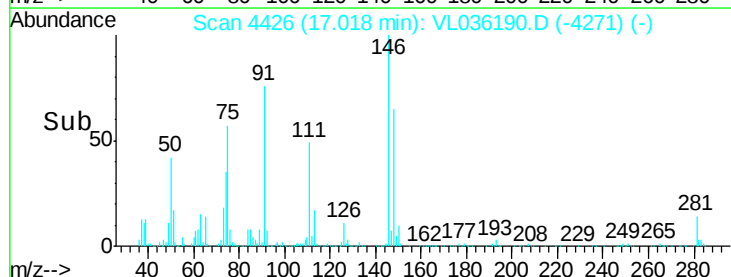
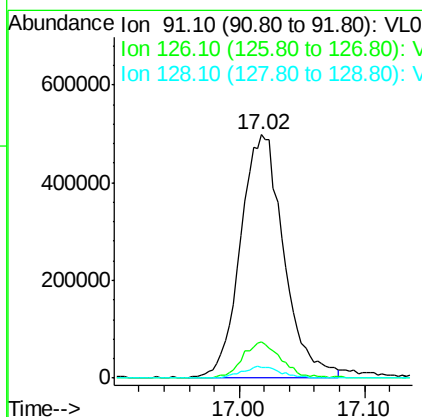
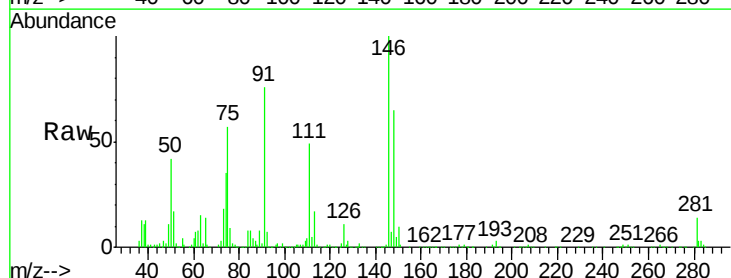
Manual Integrations
APPROVED

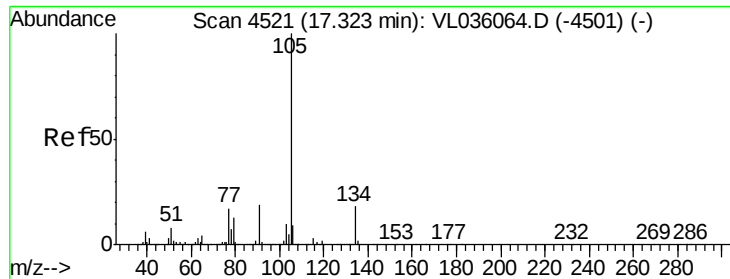
MMDadoda
12/17/2020 3:57:08 PM



#66
Benzyl Chloride
Concen: 13.106 ppbv
RT: 17.02 min Scan# 4426
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 91 Resp: 1188658
Ion Ratio Lower Upper
91 100
126 13.6 13.5 20.3
128 4.5 4.4 6.6





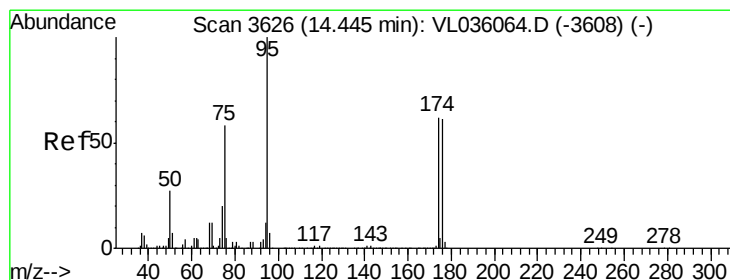
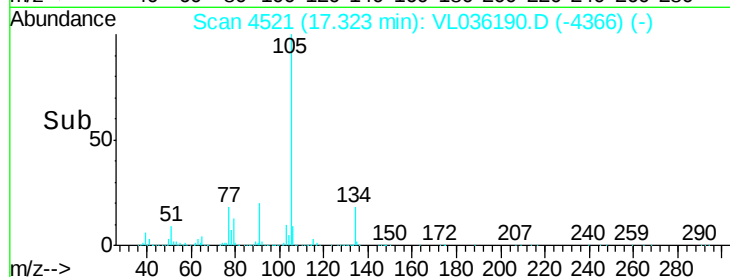
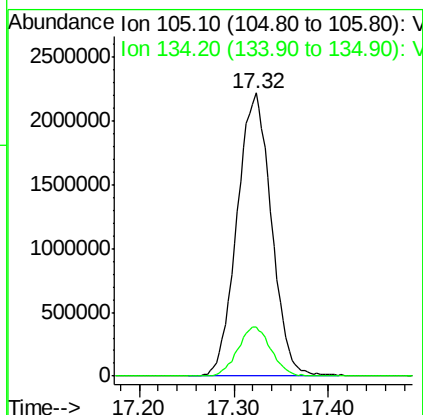
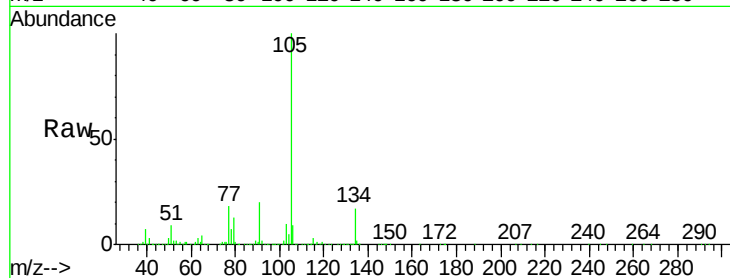
#67
 sec-Butylbenzene
 Concen: 10.991 ppbv
 RT: 17.32 min Scan# 4521
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 105 Resp: 5603094
 Ion Ratio Lower Upper
 105 100
 134 16.8 14.2 21.4

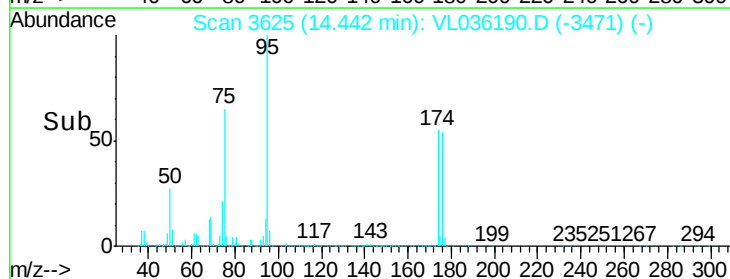
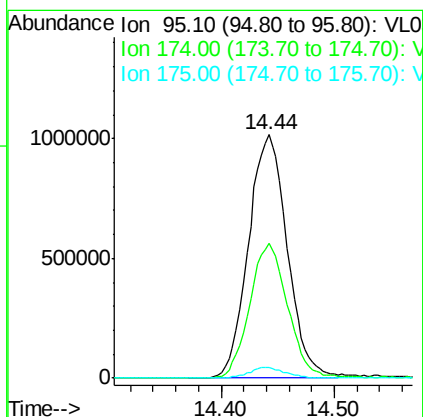
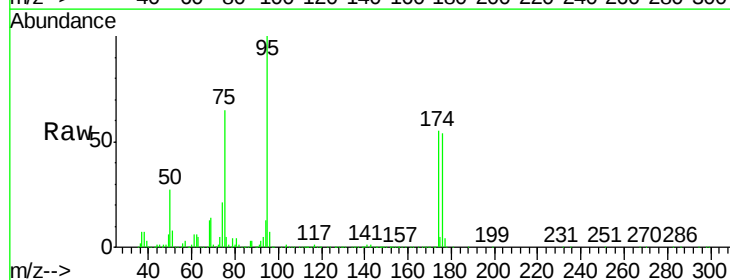
Manual Integrations
 APPROVED

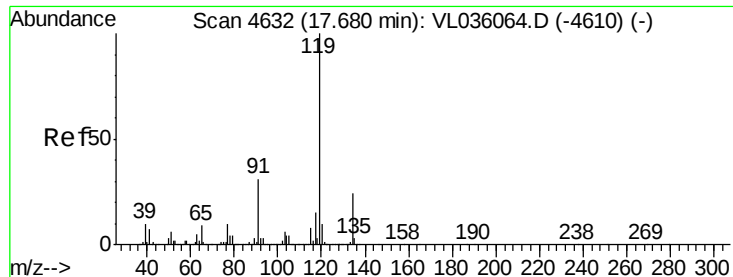
MMDadoda
 12/17/2020 3:57:08 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.034 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion: 95 Resp: 2418642
 Ion Ratio Lower Upper
 95 100
 174 55.1 50.7 76.1
 175 4.1 4.0 6.0





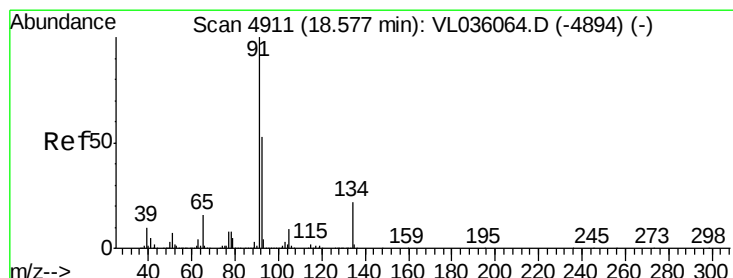
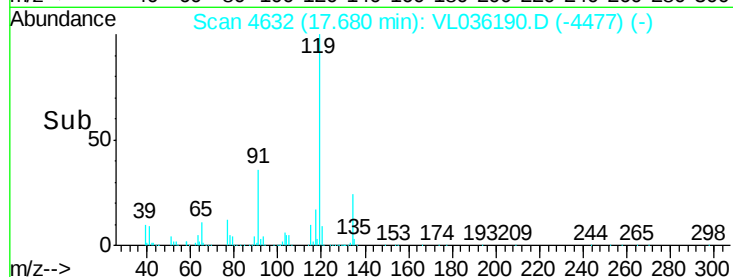
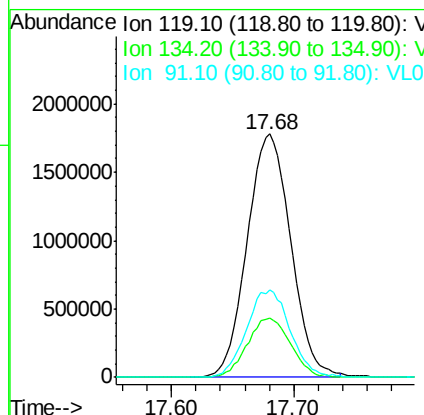
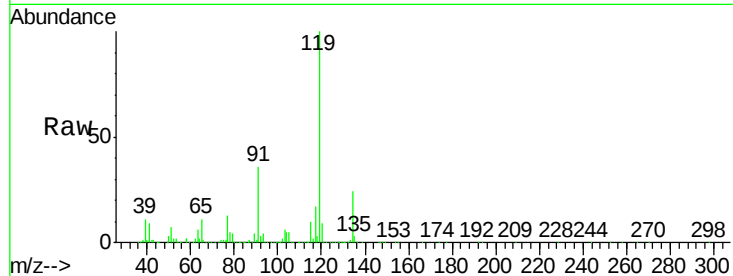
#69
p-Isopropyltoluene
Concen: 10.859 ppbv
RT: 17.68 min Scan# 4632
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 119 Resp: 4403266
Ion Ratio Lower Upper
119 100
134 24.3 19.8 29.6
91 35.9 25.8 38.6

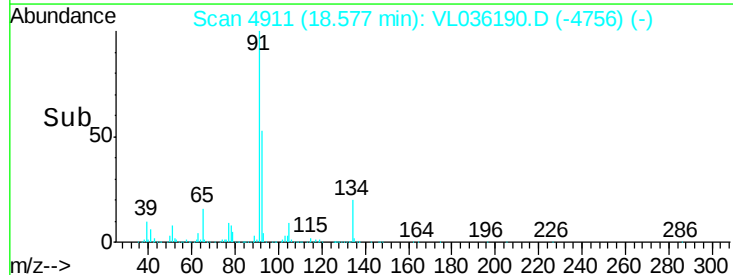
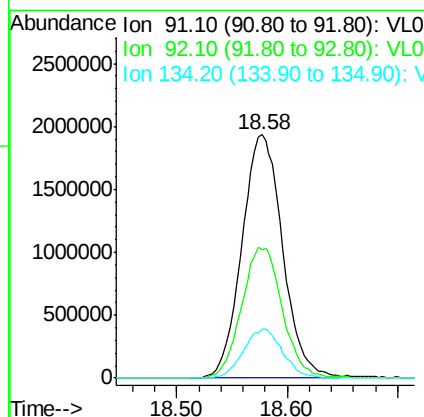
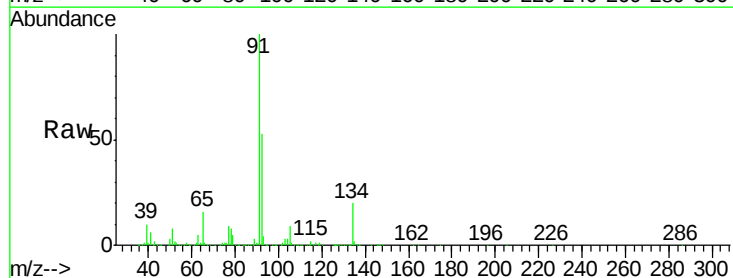
Manual Integrations
APPROVED

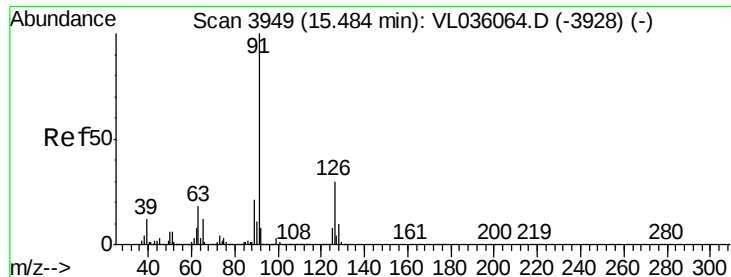
MMDadoda
12/17/2020 3:57:08 PM



#70
n-Butylbenzene
Concen: 12.329 ppbv
RT: 18.58 min Scan# 4911
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion: 91 Resp: 4941143
Ion Ratio Lower Upper
91 100
92 54.0 43.3 64.9
134 19.6 17.1 25.7





#71

2-Chlorotoluene

Concen: 11.171 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 3757693

Ion Ratio Lower Upper

91 100

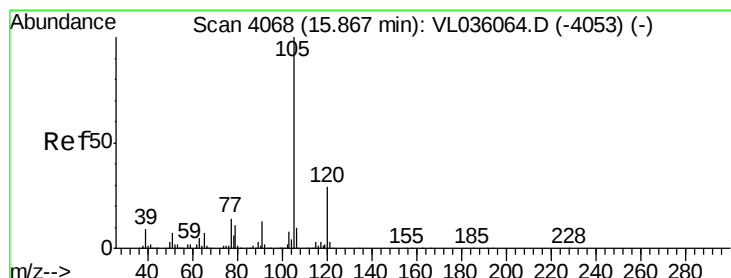
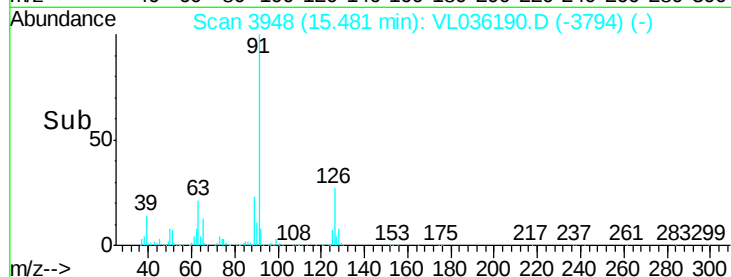
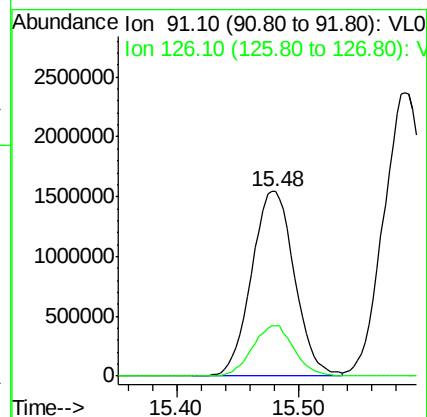
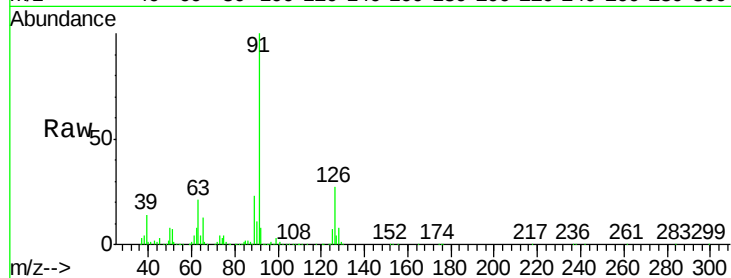
126 26.6 11.6 46.4

Manual Integrations

APPROVED

MMDadoda

12/17/2020 3:57:08 PM



#72

4-Ethyltoluene

Concen: 11.034 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Tgt Ion: 105 Resp: 3588231

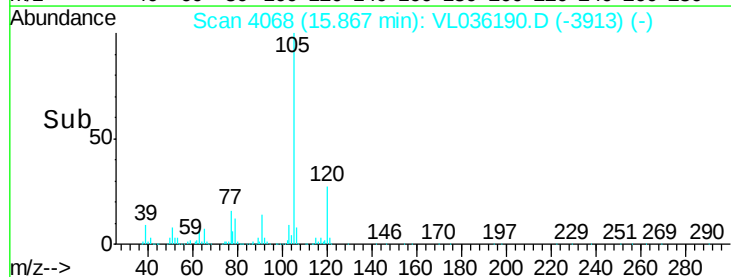
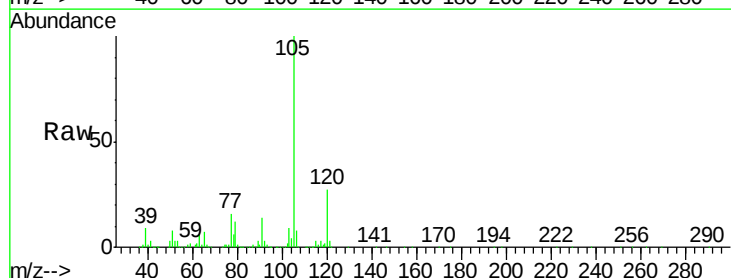
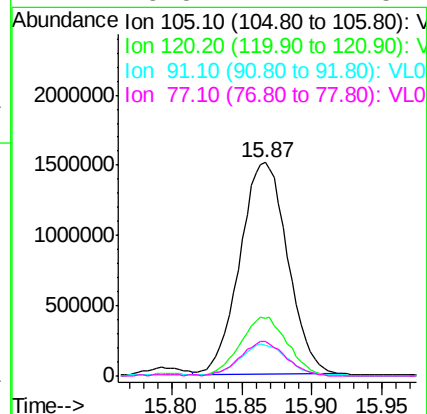
Ion Ratio Lower Upper

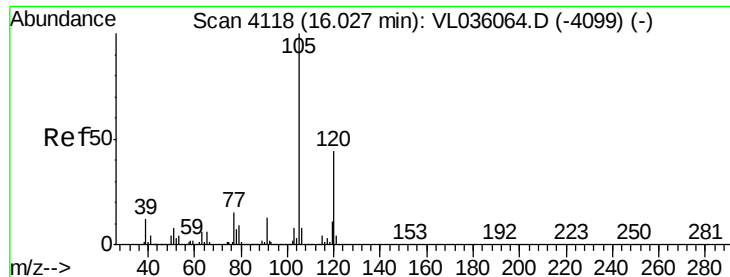
105 100

120 27.7 23.6 35.4

91 14.7 11.4 17.0

77 15.8 12.1 18.1





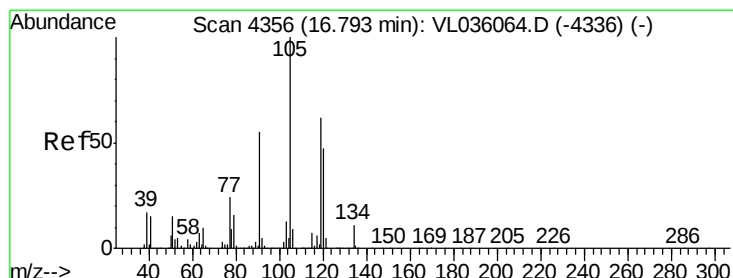
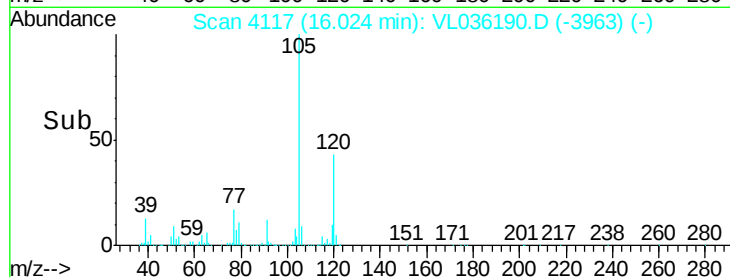
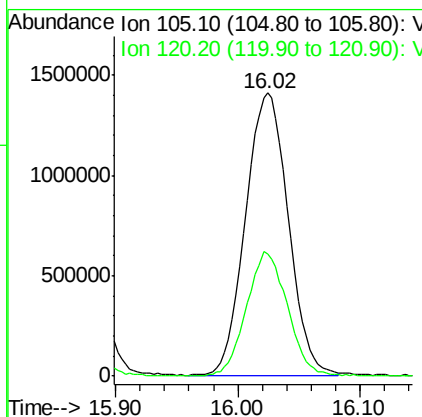
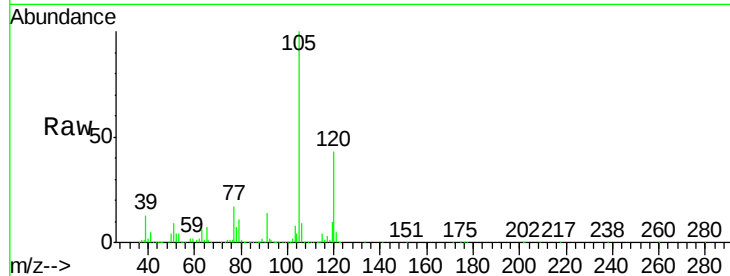
#73
 1,3,5-Trimethylbenzene
 Concen: 10.946 ppbv
 RT: 16.02 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:105 Resp: 3399927
 Ion Ratio Lower Upper
 105 100
 120 43.3 35.4 53.2

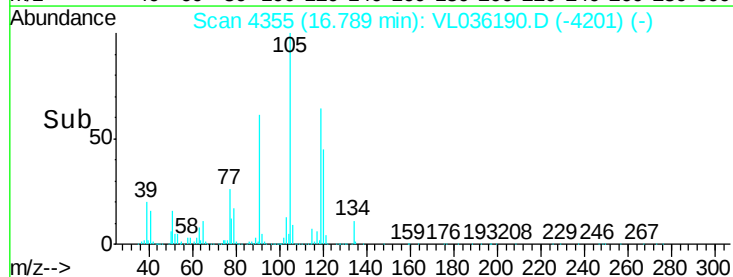
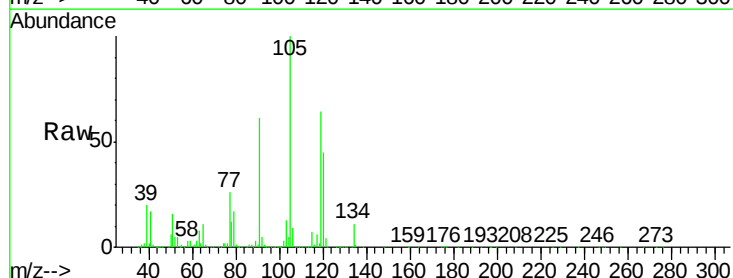
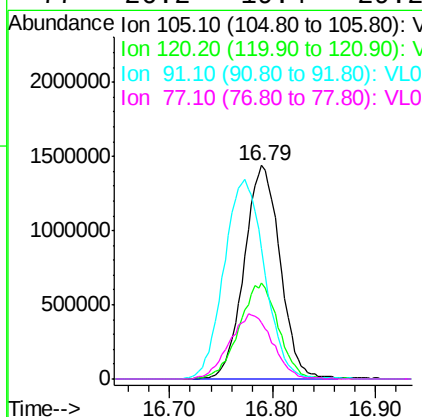
Manual Integrations
 APPROVED

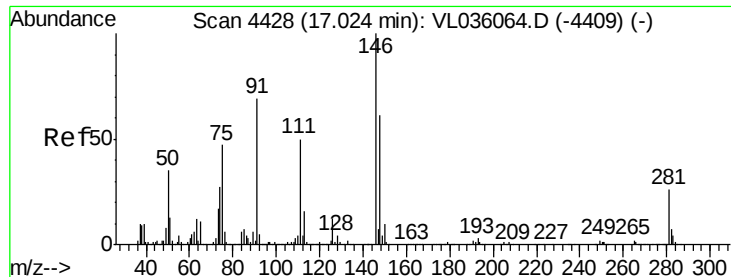
MMDadoda
 12/17/2020 3:57:08 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 11.142 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion:105 Resp: 3473886
 Ion Ratio Lower Upper
 105 100
 120 44.7 37.4 56.0
 91 60.9 45.6 68.4
 77 26.2 19.4 29.2





#75

1,3-Dichlorobenzene

Concen: 10.819 ppbv

RT: 17.02 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:146 Resp: 1688429

Ion Ratio Lower Upper

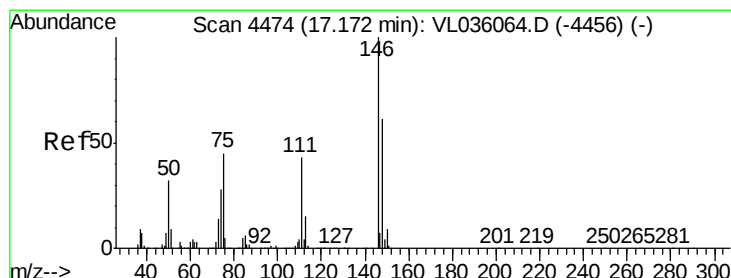
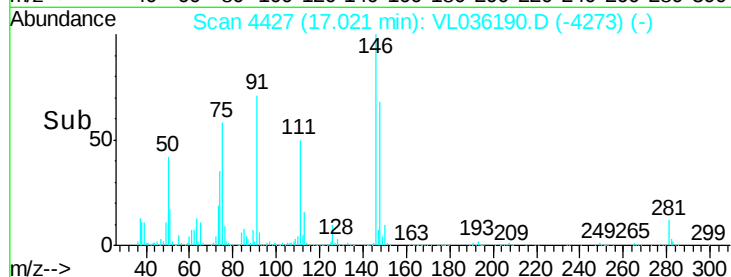
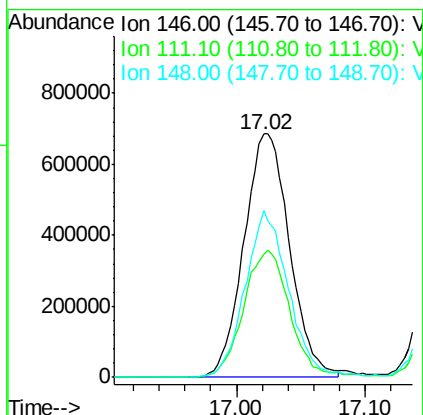
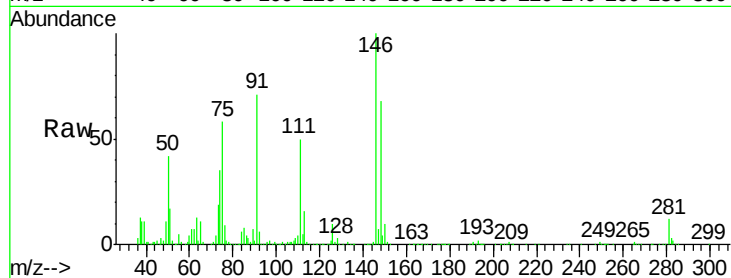
146 100

111 53.1 25.1 75.3

148 65.3 32.9 98.6

Manual Integrations
APPROVED

MMDadoda
12/17/2020 3:57:08 PM



#76

1,4-Dichlorobenzene

Concen: 10.337 ppbv

RT: 17.17 min Scan# 4472

Delta R.T. -0.01 min

Lab File: VL036190.D

Acq: 17 Dec 2020 6:21

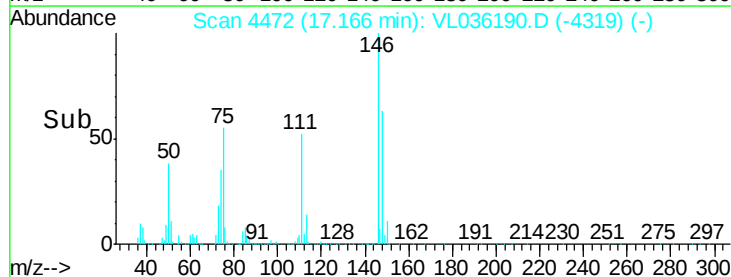
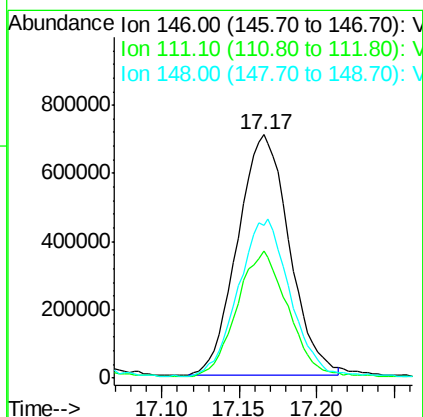
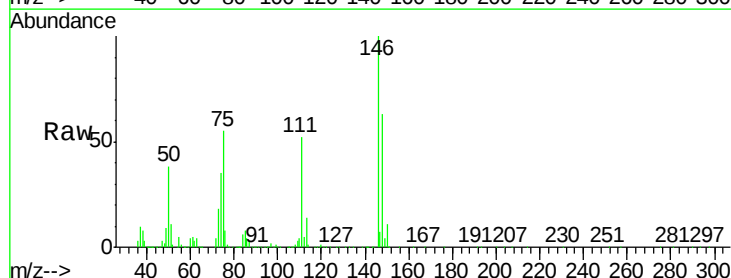
Tgt Ion:146 Resp: 1642489

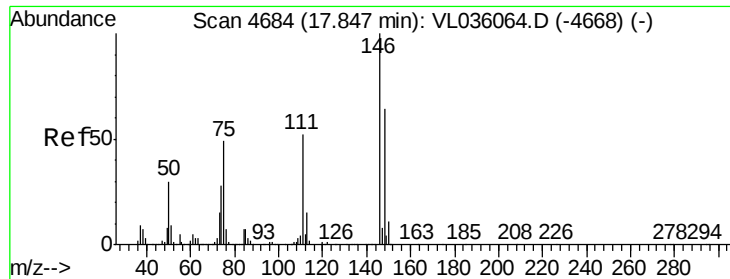
Ion Ratio Lower Upper

146 100

111 53.6 24.3 72.8

148 68.4 32.8 98.3





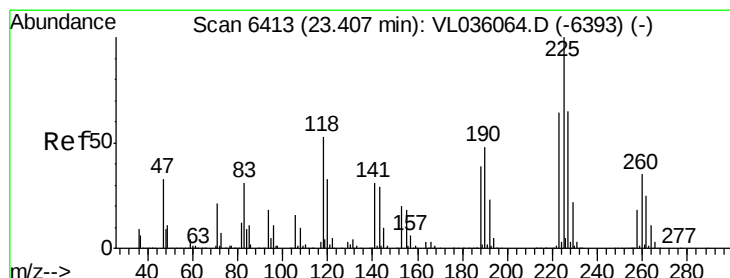
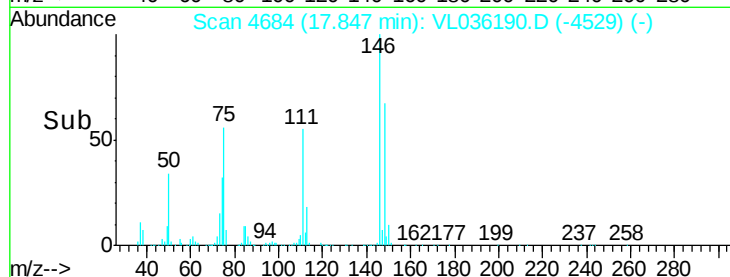
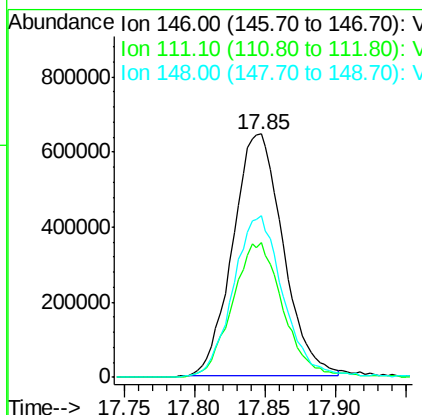
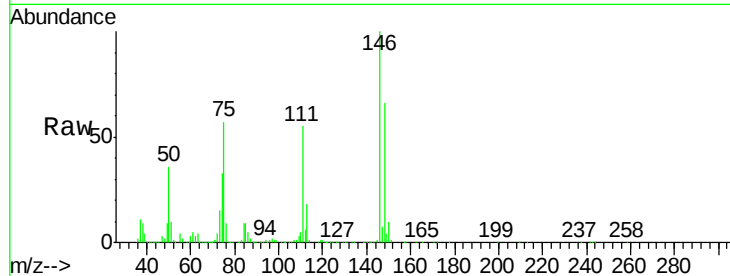
#77
 1,2-Dichlorobenzene
 Concen: 10.795 ppbv
 RT: 17.85 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:146 Resp: 1608665
 Ion Ratio Lower Upper
 146 100
 111 56.7 26.1 78.2
 148 66.9 33.1 99.5

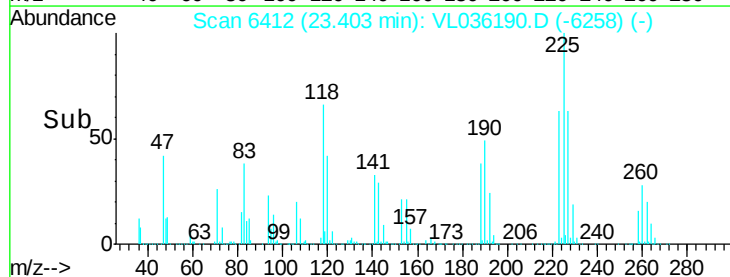
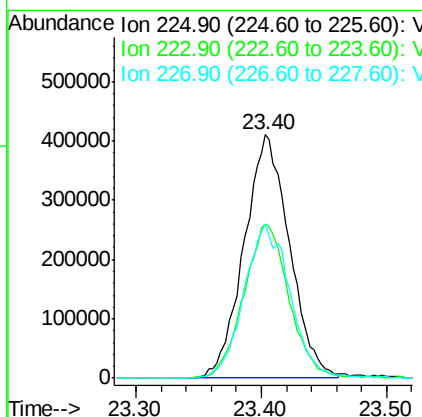
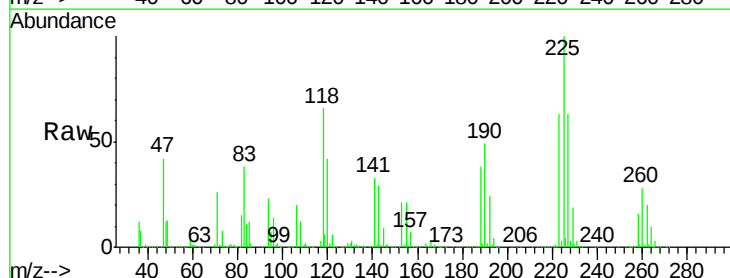
Manual Integrations
 APPROVED

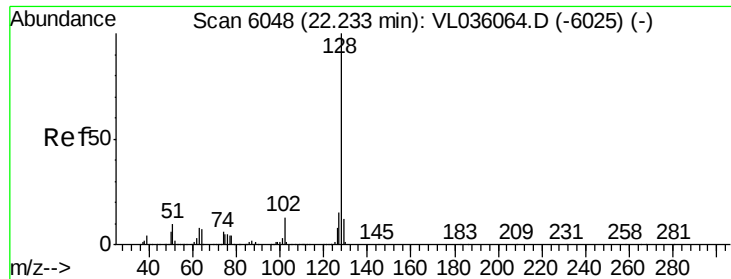
MMDadoda
 12/17/2020 3:57:08 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.636 ppbv
 RT: 23.40 min Scan# 6412
 Delta R.T. -0.00 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Tgt Ion:225 Resp: 1031414
 Ion Ratio Lower Upper
 225 100
 223 63.5 51.1 76.7
 227 64.2 51.7 77.5





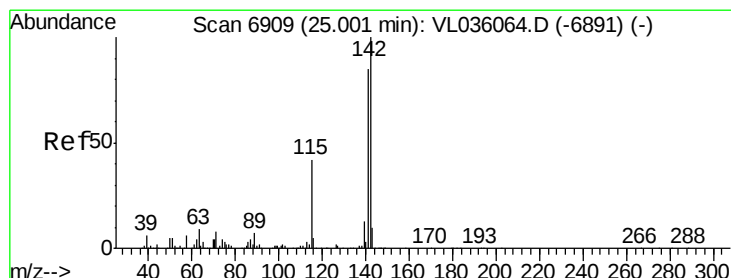
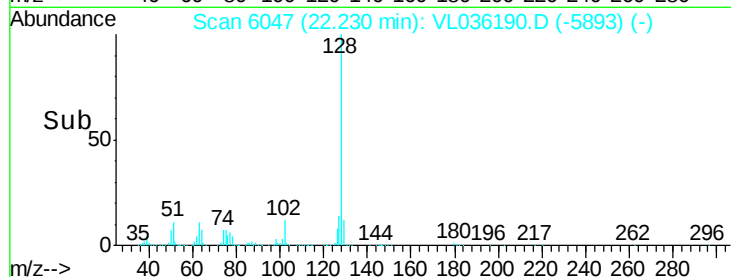
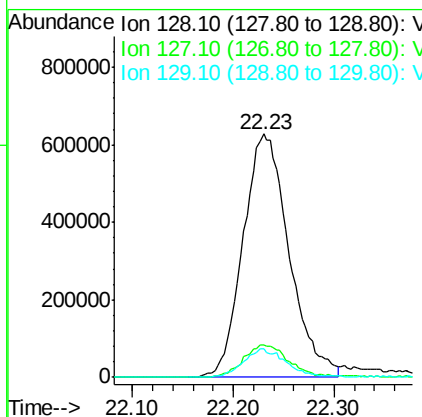
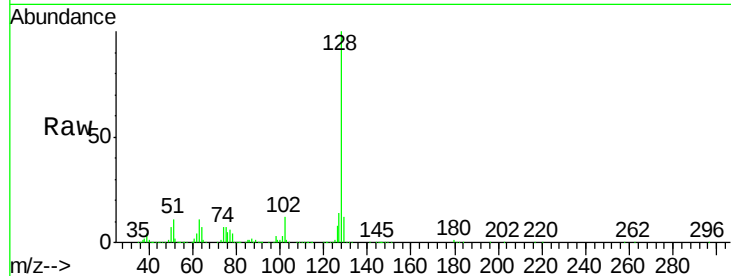
#79
Naphthalene
Concen: 12.540 ppbv
RT: 22.23 min Scan# 6047
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.6	11.7	17.5
129	11.9	9.3	13.9

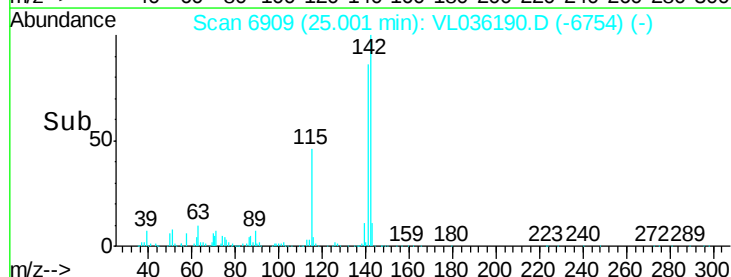
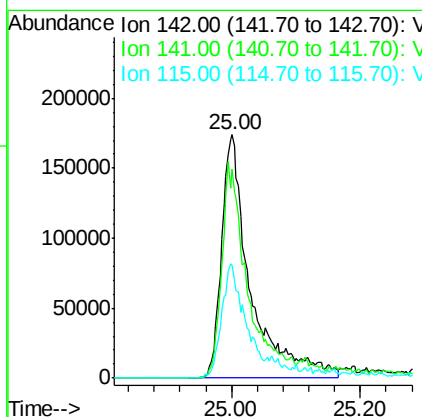
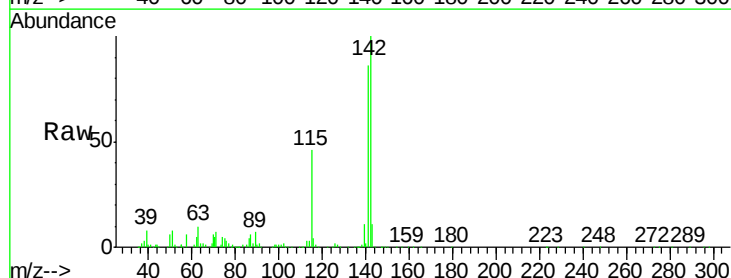
Manual Integrations
APPROVED

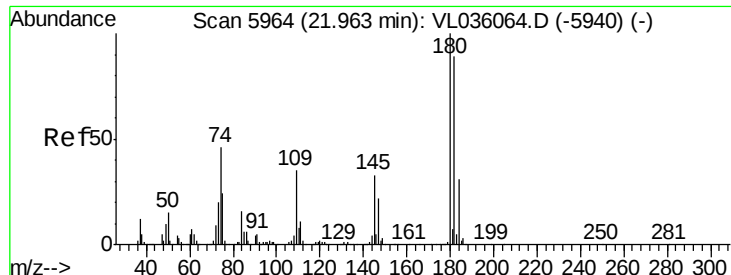
MMDadoda
12/17/2020 3:57:08 PM



#80
Naphthalene, 2-methyl-
Concen: 15.343 ppbv
RT: 25.00 min Scan# 6909
Delta R.T. -0.00 min
Lab File: VL036190.D
Acq: 17 Dec 2020 6:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	78.4	64.3	96.5
115	45.3	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.748 ppbv m
 RT: 21.96 min Scan# 5962
 Delta R.T. -0.01 min
 Lab File: VL036190.D
 Acq: 17 Dec 2020 6:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	0.0	0.0
184	32.2	0.0	0.0

Manual Integrations
 APPROVED

MMDadoda
 12/17/2020 3:57:08 PM

