

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035387.D
 Acq On : 12 Aug 2020 15:59
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:57 PM

Quant Time: Aug 12 20:01:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 12 2020
 QLast Update : Wed Aug 12 15:19:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1326998	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3285999	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3266976m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2631172	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1857294	10.522	ppbv	98
3) Chlorodifluoromethane	2.98	51	2075530	13.702	ppbv	98
4) Chloromethane	3.13	50	1192905	13.910	ppbv	97
5) Vinyl Chloride	3.25	62	1129615	12.805	ppbv	100
6) Bromomethane	3.47	94	657433	12.165	ppbv	97
7) Chloroethane	3.55	64	412485	12.590	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	2284419	10.950	ppbv	100
9) Propene	3.01	41	1035572	19.185	ppbv	99
10) Heptane	8.14	43	2663871	19.321	ppbv	99
11) Trichlorofluoromethane	3.95	101	2570157	11.239	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1739700	10.644	ppbv	100
13) Ethanol	3.60	45	272802	14.654	ppbv	96
14) Bromoethene	3.74	108	816908	12.464	ppbv	100
15) Acetone	3.85	43	2039852	10.825	ppbv	100
16) 1,3-Butadiene	3.32	39	1084724	14.955	ppbv	100
17) tert-Butyl alcohol	4.29	59	2578907	14.911	ppbv	100
18) 1,1-Dichloroethene	4.29	96	823715	11.736	ppbv	98
19) Isopropyl Alcohol	3.97	45	1703349	14.260	ppbv	98
20) Methylene Chloride	4.34	84	776295	10.102	ppbv	97
21) Allyl Chloride	4.41	41	1504854	13.938	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	855644	12.573	ppbv	95
23) Vinyl Acetate	5.08	43	3489641	19.313	ppbv	99
24) 1,1-Dichloroethane	5.02	63	2357962	13.886	ppbv	100
25) Ethyl Acetate	5.69	43	4249795	14.843	ppbv	99
26) Hexane	5.70	57	1900259	15.300	ppbv	98
27) Carbon Disulfide	4.55	76	2259077	13.008	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	3188490	17.656	ppbv	100
29) Chloroform	5.76	83	2876802	13.436	ppbv	98
30) Cyclohexane	7.14	84	1643028	17.446	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	2017993	18.277	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	2932755	13.032	ppbv	100
34) 2-Butanone	5.25	43	2966110	18.332	ppbv	98
35) Carbon Tetrachloride	7.03	117	2921370	12.919	ppbv	97
36) Benzene	6.91	78	3907489	17.610	ppbv	99
37) 1,2-Dichloroethane	6.32	62	2308574	14.893	ppbv	99
38) Trichloroethene	7.85	130	1405068	13.727	ppbv	97
39) 1,2-Dichloropropane	7.63	63	1593036	17.734	ppbv	96
40) 1,4-Dioxane	7.85	88	609048	15.832	ppbv	95
41) Tetrahydrofuran	6.06	42	1807196	22.761	ppbv	99
42) Bromodichloromethane	7.81	83	3190397	15.326	ppbv	99
43) Methyl Methacrylate	8.03	69	1838244	19.692	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035387.D
 Acq On : 12 Aug 2020 15:59
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

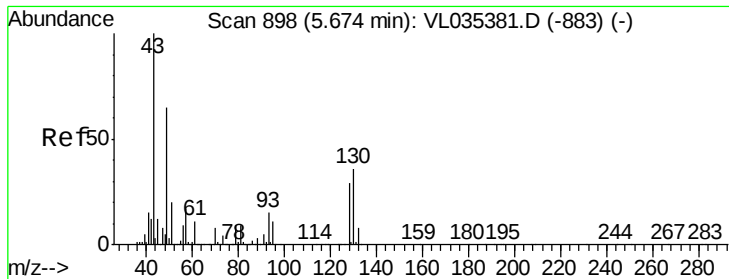
Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:57 PM

Quant Time: Aug 12 20:01:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 12 2020
 QLast Update : Wed Aug 12 15:19:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	6328070	16.053	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	2259580	23.334	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2504653	21.417	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	1645224	15.233	ppbv	98
48) Dibromochloromethane	10.33	129	2676502	15.128	ppbv	100
49) Bromoform	13.07	173	2273844	14.105	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	4350084	17.609	ppbv	99
51) 2-Hexanone	10.15	43	3766700	19.449	ppbv #	99
52) Tetrachloroethene	11.25	164	1292826	14.696	ppbv	97
53) Toluene	9.83	91	4528021	18.759	ppbv	98
54) 1,2-Dibromoethane	10.64	107	2547962	16.443	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1961043	12.717	ppbv	97
57) Chlorobenzene	12.18	112	3271455	13.299	ppbv	100
58) Ethyl Benzene	12.74	91	6059413	17.825	ppbv	96
59) m/p-Xylene	13.02	91	9689766m	30.611	ppbv	
60) o-Xylene	13.73	91	4745475	15.107	ppbv	99
61) Styrene	13.56	104	3810559	19.863	ppbv	99
62) Isopropylbenzene	14.70	105	7052754	14.912	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	3355283	12.521	ppbv	99
64) n-propylbenzene	15.59	120	1967637	15.480	ppbv	95
65) tert-Butylbenzene	16.78	119	6047416	13.963	ppbv	99
66) Benzyl Chloride	17.02	91	3267419	19.061	ppbv	100
67) sec-Butylbenzene	17.33	105	8575218	13.998	ppbv	98
69) p-Isopropyltoluene	17.69	119	7250526	14.518	ppbv	97
70) n-Butylbenzene	18.58	91	7886554	14.763	ppbv	99
71) 2-Chlorotoluene	15.48	91	5832148	16.833	ppbv	99
72) 4-Ethyltoluene	15.87	105	5903756	16.484	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	5525084	16.077	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	5402527	13.755	ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	3131828	12.189	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	3275162	13.764	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	3184390	13.429	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	2466946	12.227	ppbv	99
79) Naphthalene	22.24	128	7020557	23.239	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	3473250	50.541	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	3268668	17.168	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1326998

Ion Ratio Lower Upper

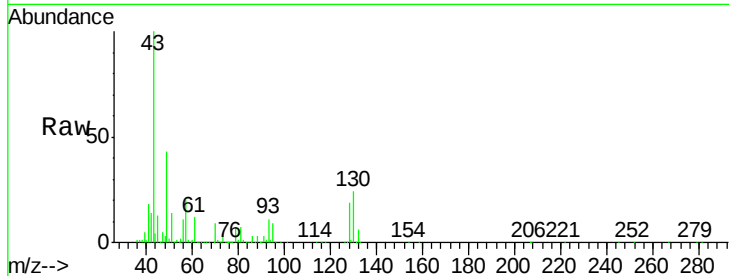
49 100

128 43.6 21.8 65.3

130 54.8 27.9 83.6

Manual Integrations
APPROVED

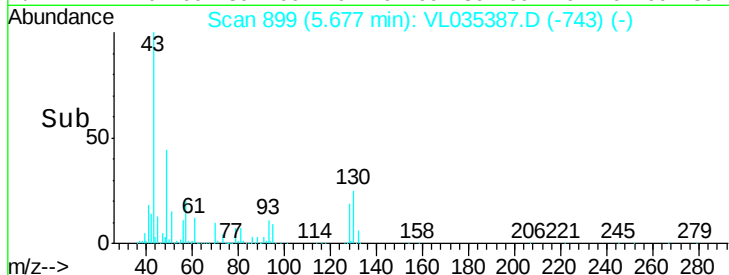
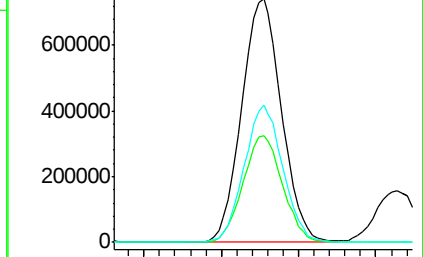
MMDadoda
8/17/2020 5:43:57 PM



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



#2

Dichlorodifluoromethane

Concen: 10.522 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035387.D

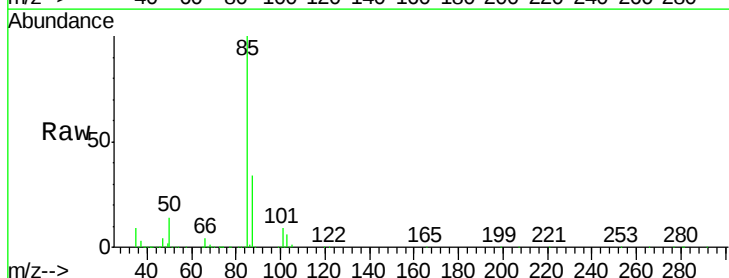
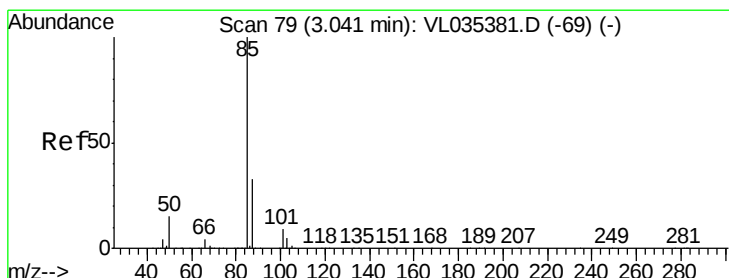
Acq: 12 Aug 2020 15:59

Tgt Ion: 85 Resp: 1857294

Ion Ratio Lower Upper

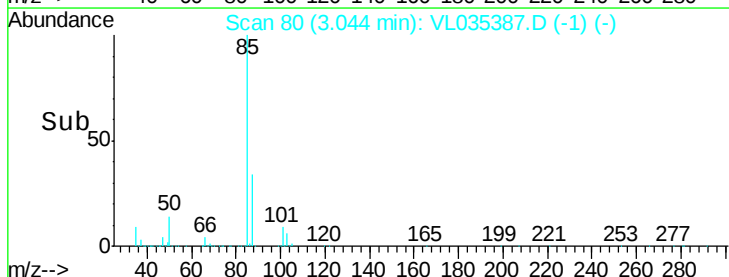
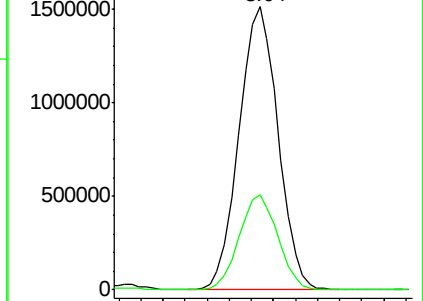
85 100

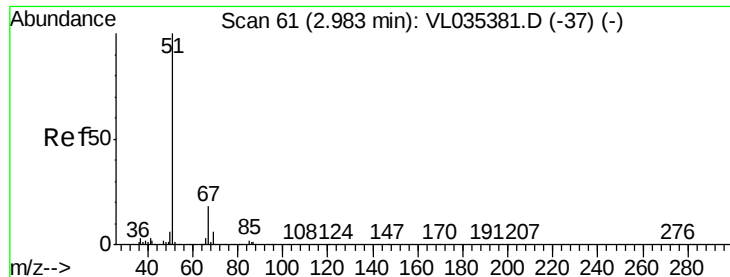
87 33.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.702 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Tot Ion: 51 Resp: 2075530

Ion Ratio Lower Upper

51 100

67 18.4 14.1 21.1

Instrument :

MSVOA_L

ClientSampleId :

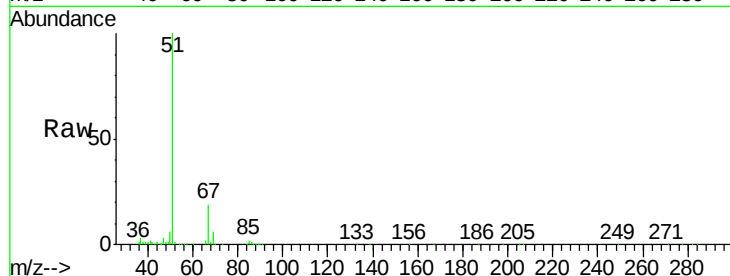
VSTDIC015

Manual Integrations

APPROVED

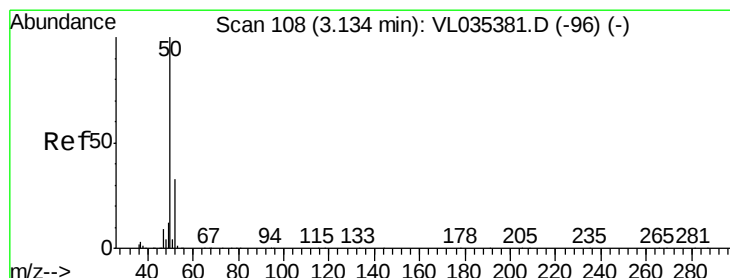
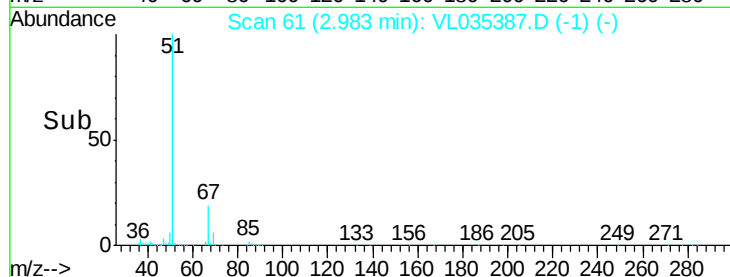
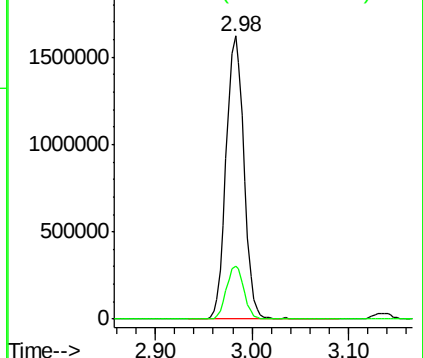
MMDadoda

8/17/2020 5:43:57 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.910 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035387.D

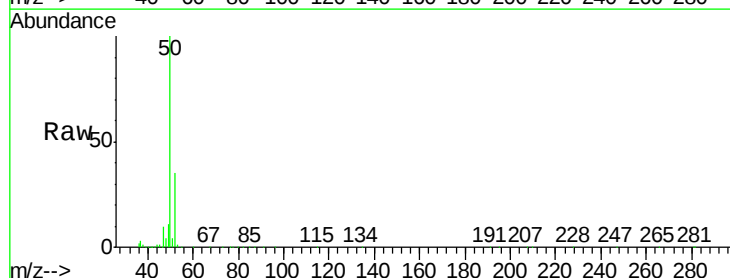
Acq: 12 Aug 2020 15:59

Tgt Ion: 50 Resp: 1192905

Ion Ratio Lower Upper

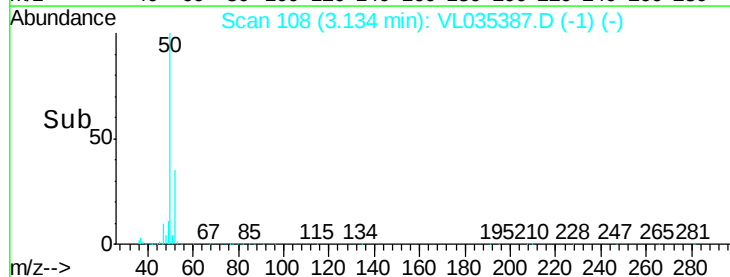
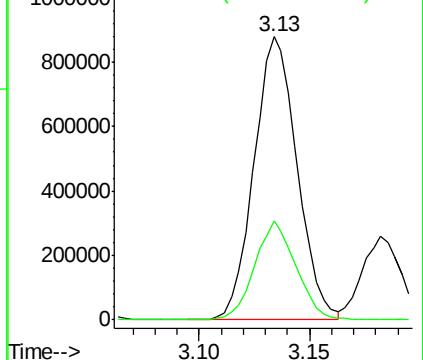
50 100

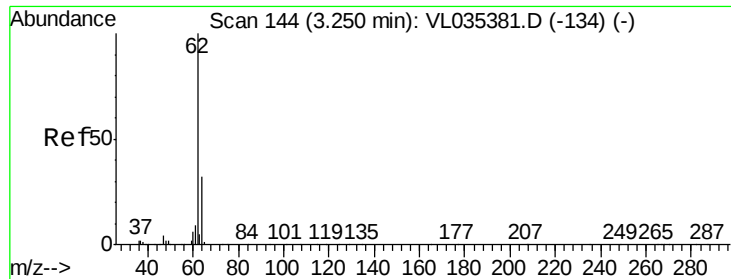
52 35.0 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.805 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1129615

Ion Ratio Lower Upper

62 100

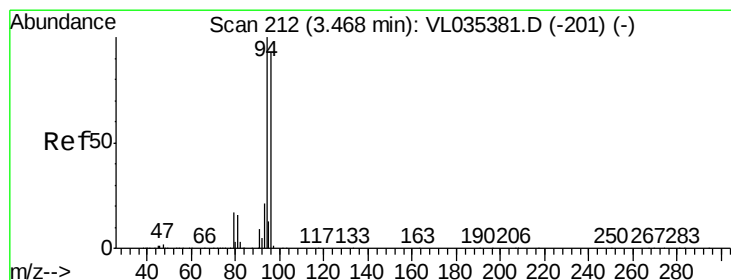
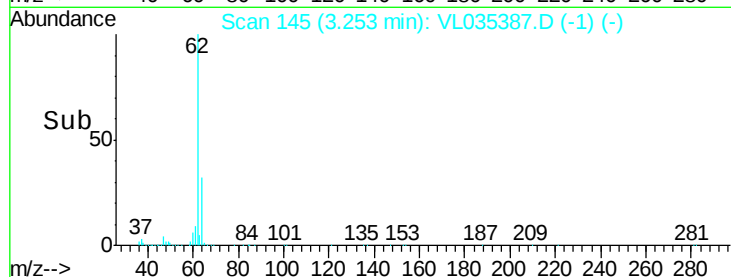
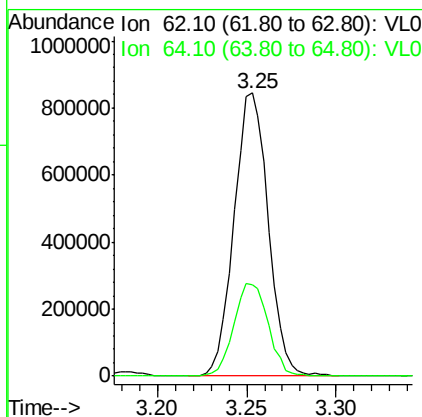
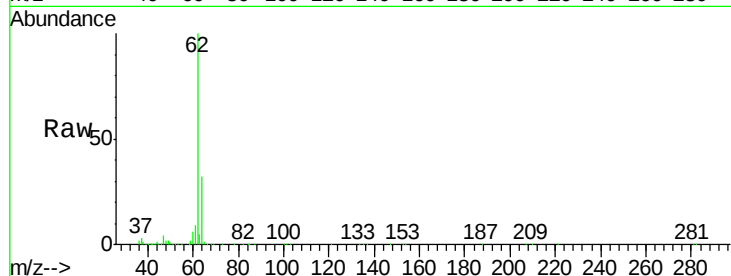
64 32.1 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/17/2020 5:43:57 PM



#6

Bromomethane

Concen: 12.165 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL035387.D

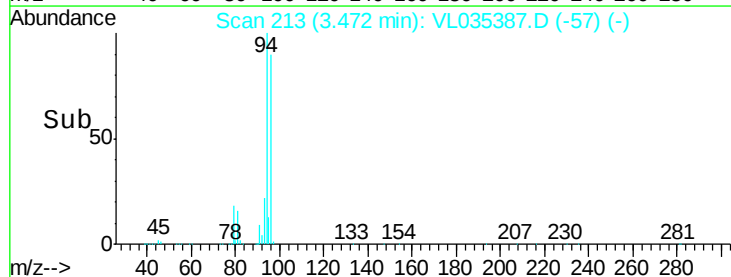
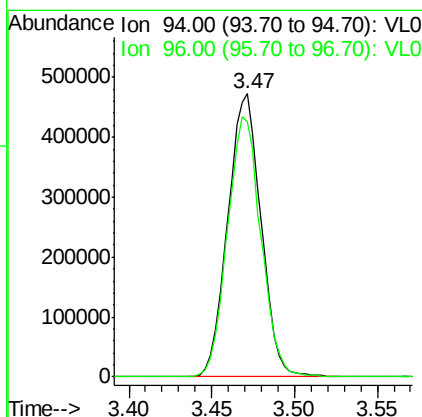
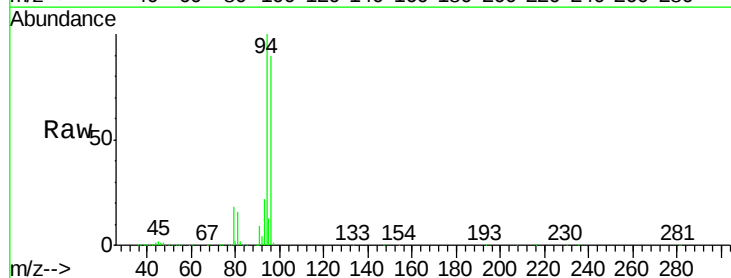
Acq: 12 Aug 2020 15:59

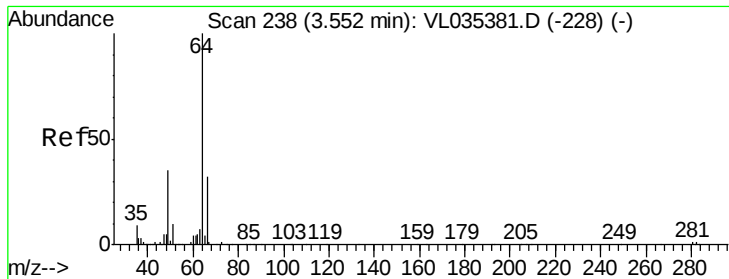
Tgt Ion: 94 Resp: 657433

Ion Ratio Lower Upper

94 100

96 90.2 74.4 111.6





#7

Chloroethane

Concen: 12.590 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 412485

Ion Ratio Lower Upper

64 100

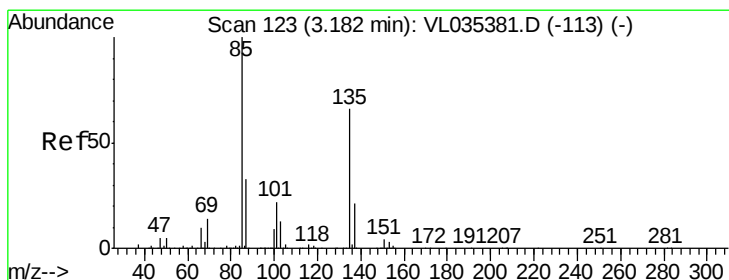
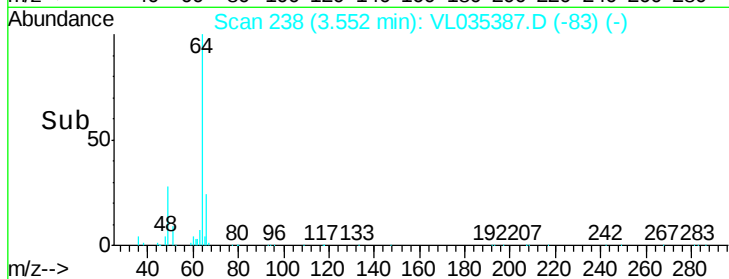
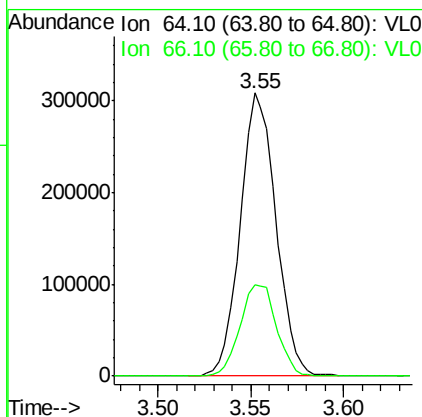
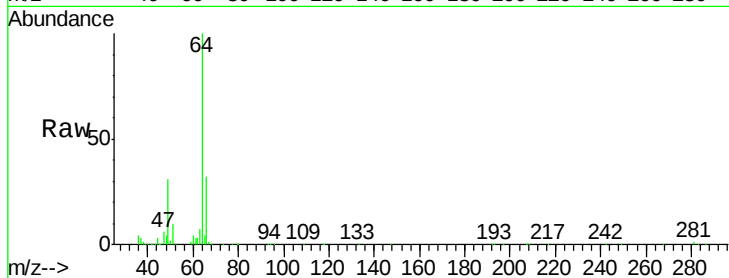
66 32.5 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/17/2020 5:43:57 PM



#8

Dichlorotetrafluoroethane

Concen: 10.950 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035387.D

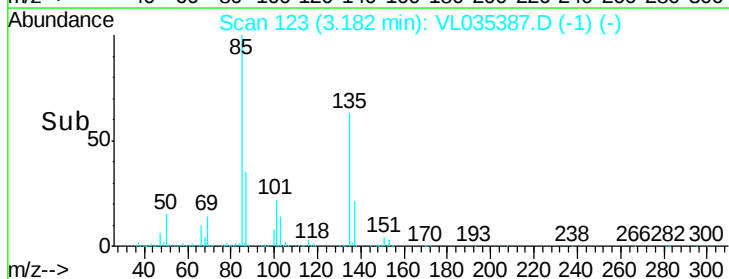
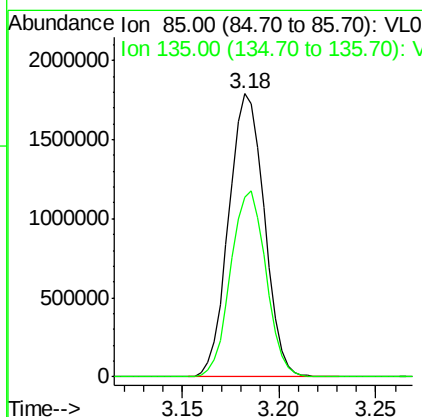
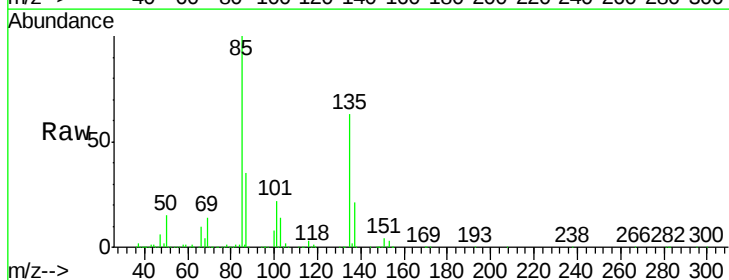
Acq: 12 Aug 2020 15:59

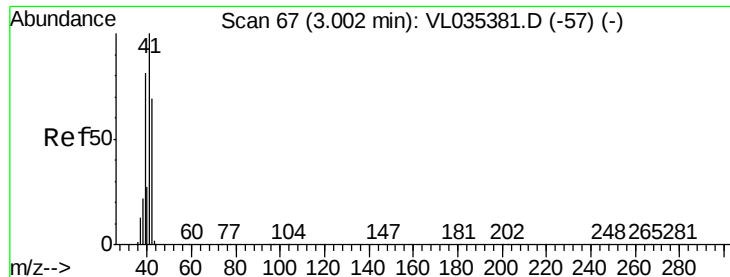
Tgt Ion: 85 Resp: 2284419

Ion Ratio Lower Upper

85 100

135 65.3 52.5 78.7





#9

Propene

Concen: 19.185 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1035572

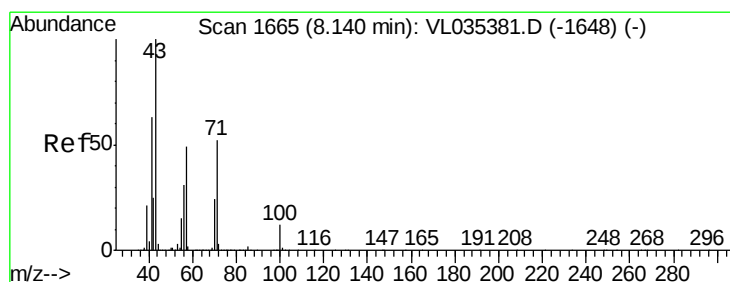
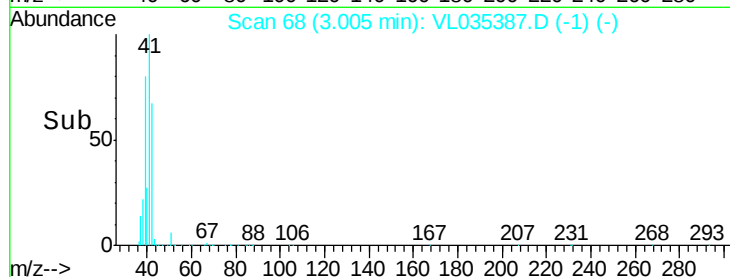
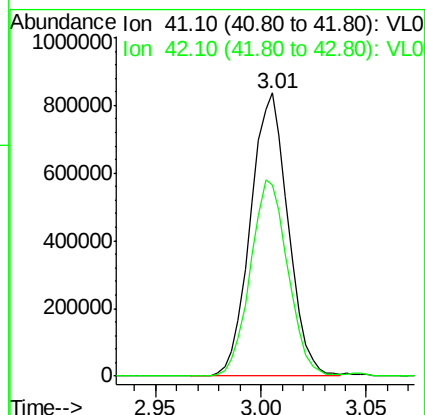
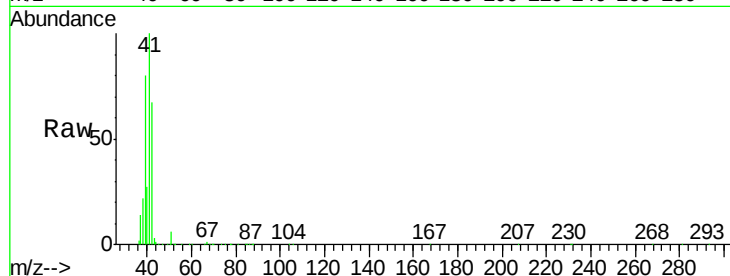
Ion Ratio Lower Upper

41 100

42 69.7 55.4 83.2

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



#10

Heptane

Concen: 19.321 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VL035387.D

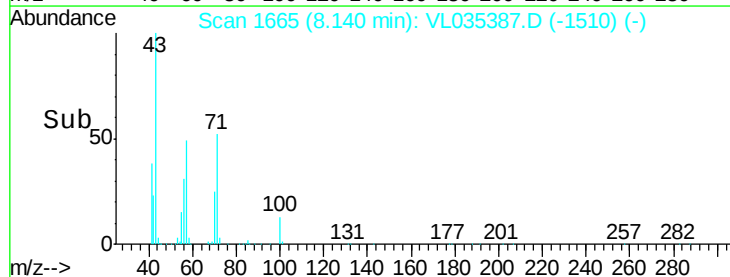
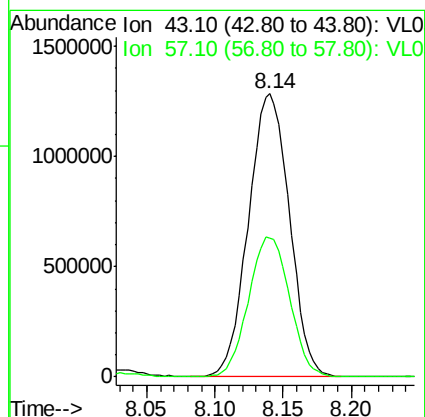
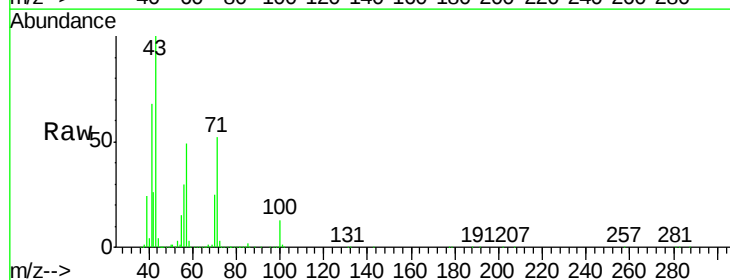
Acq: 12 Aug 2020 15:59

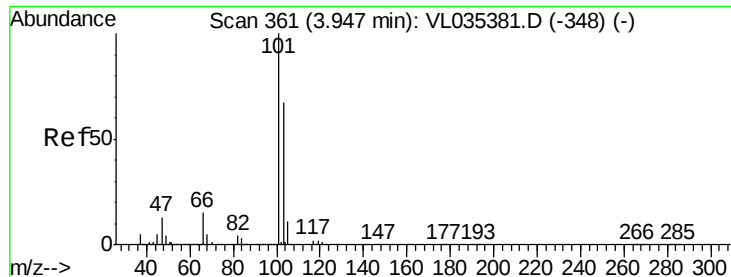
Tgt Ion: 43 Resp: 2663871

Ion Ratio Lower Upper

43 100

57 50.0 39.4 59.2





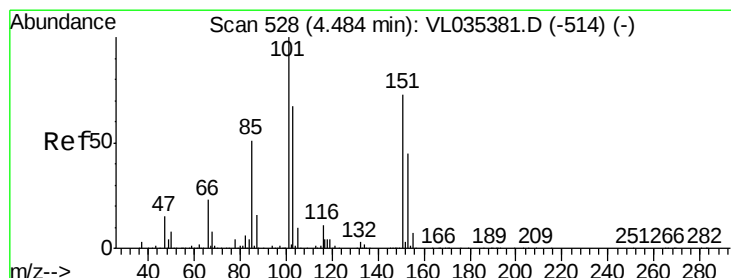
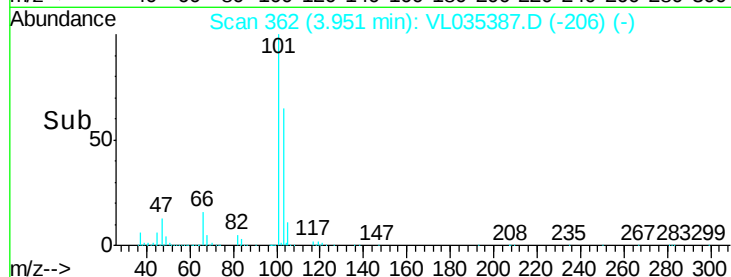
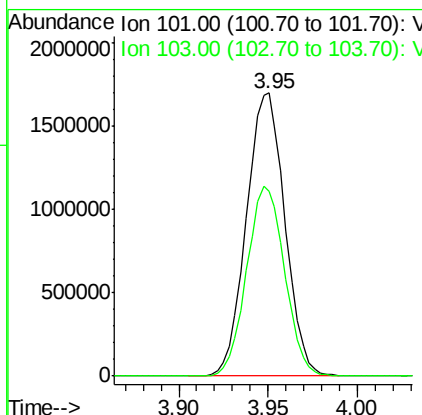
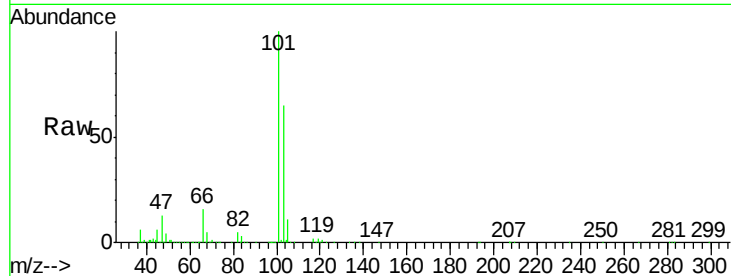
#11
 Trichlorofluoromethane
 Concen: 11.239 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2570157
 Ion Ratio Lower Upper
 101 100
 103 65.4 53.3 79.9

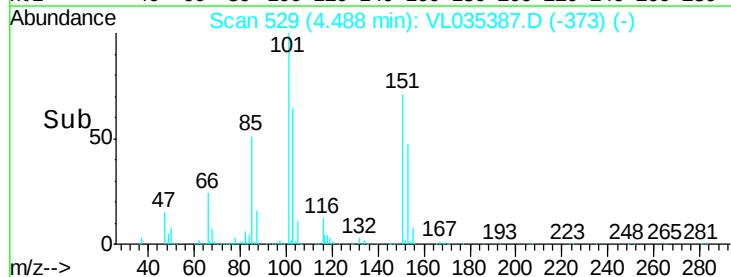
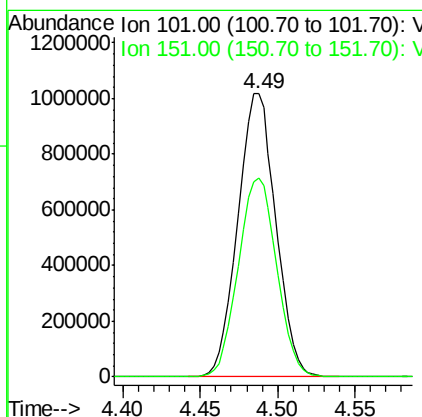
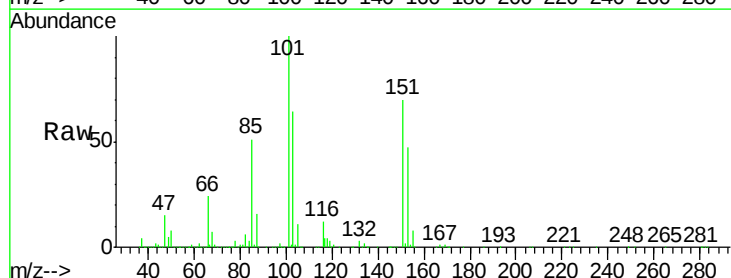
Manual Integrations
 APPROVED

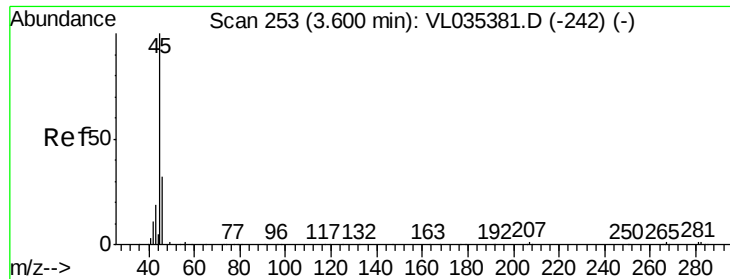
MMDadoda
 8/17/2020 5:43:57 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.644 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion:101 Resp: 1739700
 Ion Ratio Lower Upper
 101 100
 151 71.2 57.0 85.6





#13

Ethanol

Concen: 14.654 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 272802

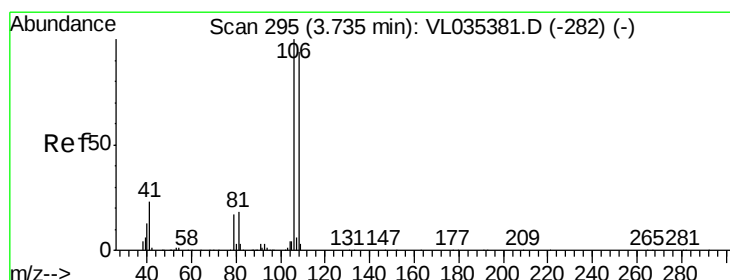
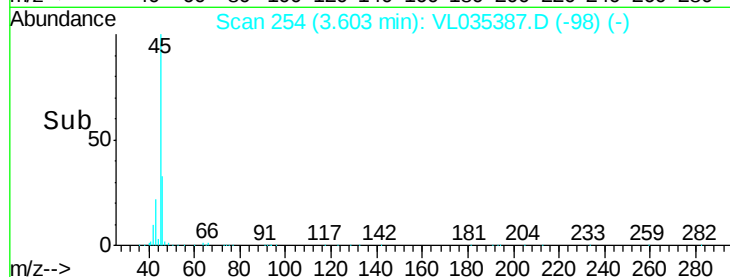
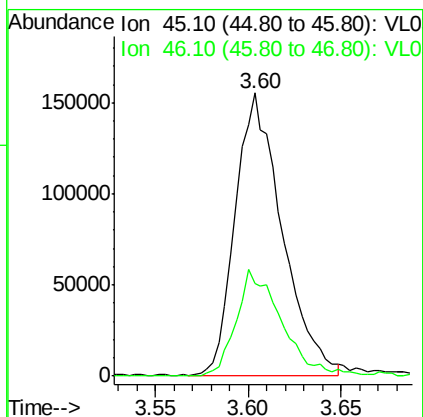
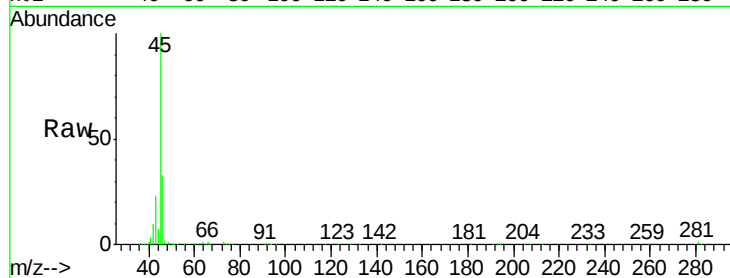
Ion Ratio Lower Upper

45 100

46 37.3 14.1 56.3

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



#14

Bromoethene

Concen: 12.464 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

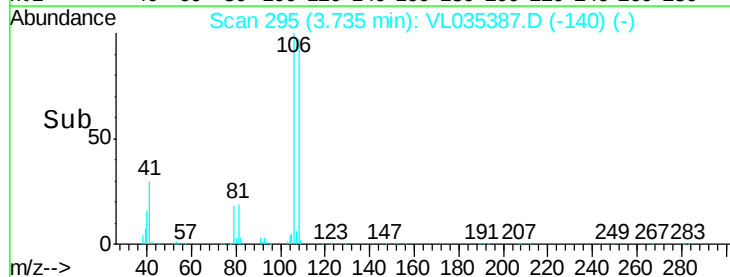
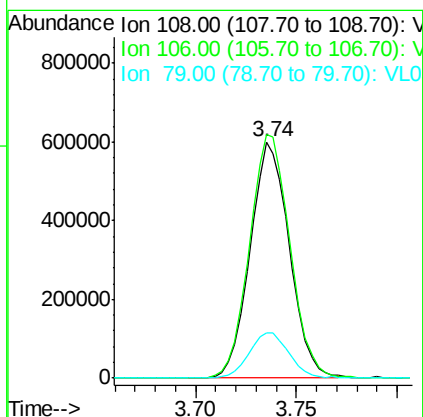
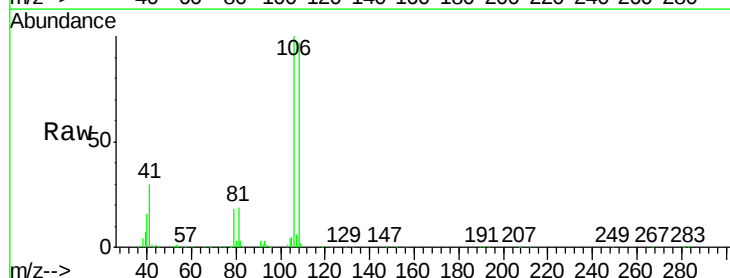
Tgt Ion: 108 Resp: 816908

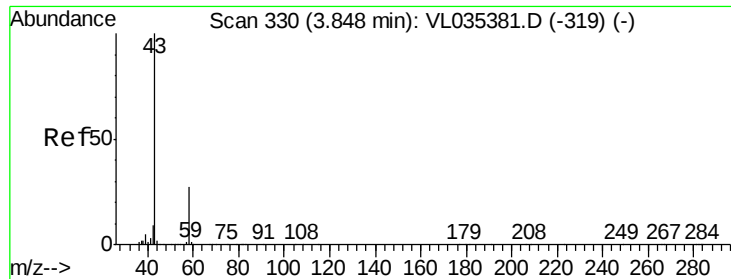
Ion Ratio Lower Upper

108 100

106 106.6 84.9 127.3

79 19.9 15.8 23.8





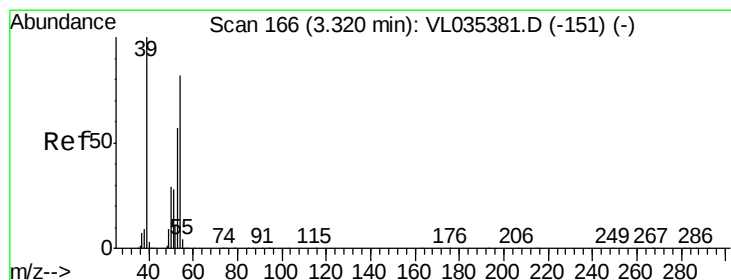
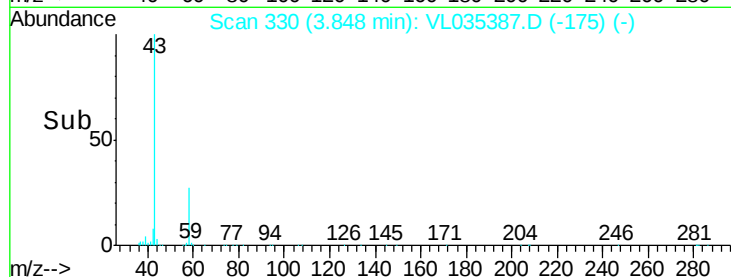
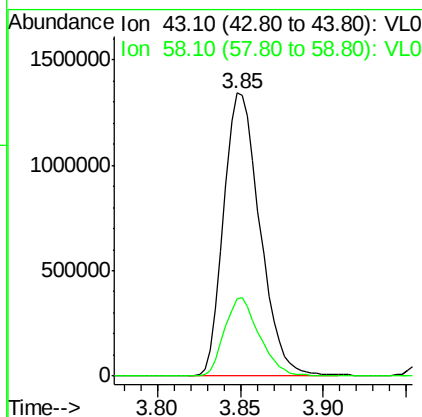
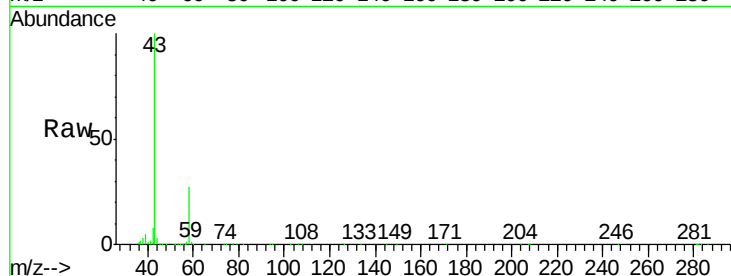
#15
Acetone
Concen: 10.825 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2039852
Ion Ratio Lower Upper
43 100
58 27.0 21.7 32.5

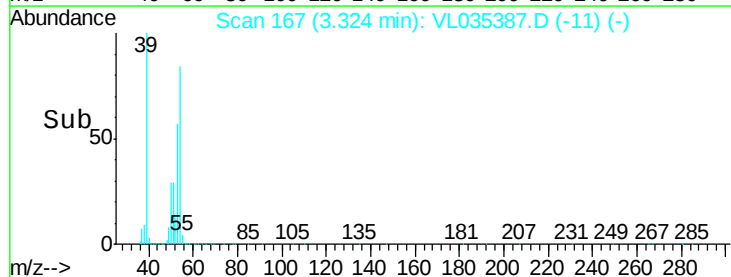
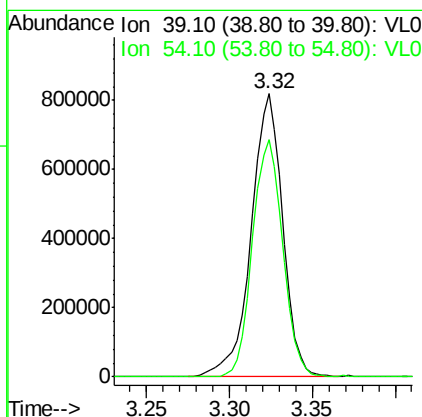
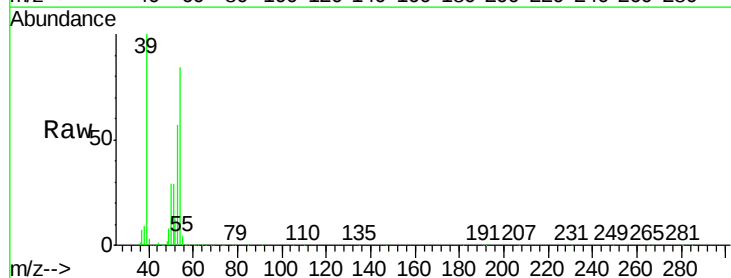
Manual Integrations
APPROVED

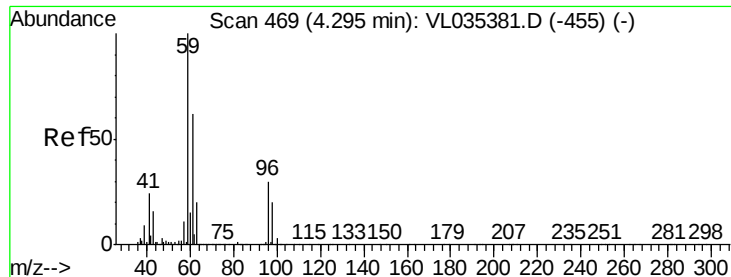
MMDadoda
8/17/2020 5:43:57 PM



#16
1,3-Butadiene
Concen: 14.955 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion: 39 Resp: 1084724
Ion Ratio Lower Upper
39 100
54 81.0 64.9 97.3





#17

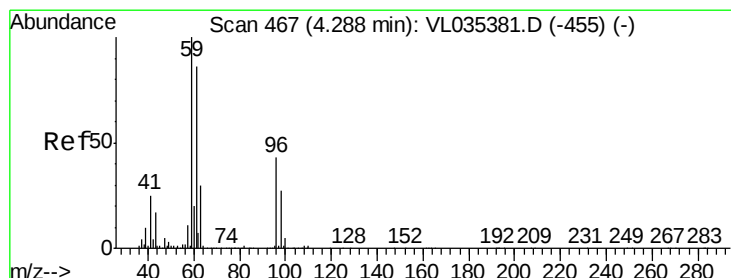
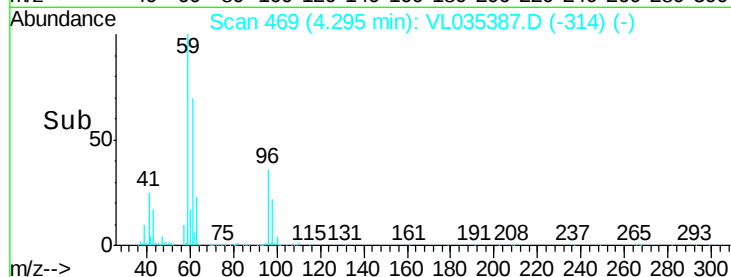
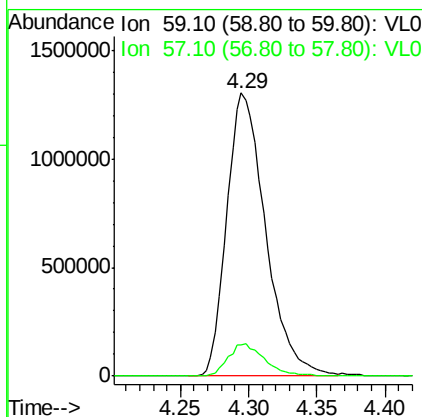
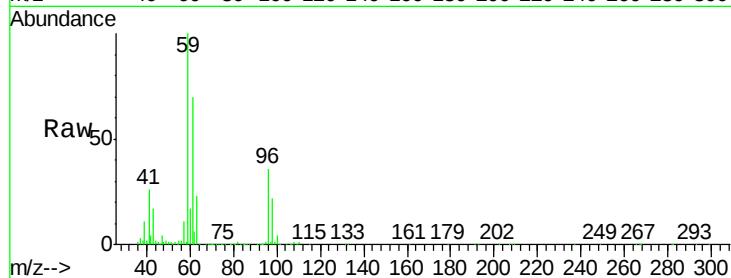
tert-Butyl alcohol
 Concen: 14.911 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

Manual Integrations
 APPROVED

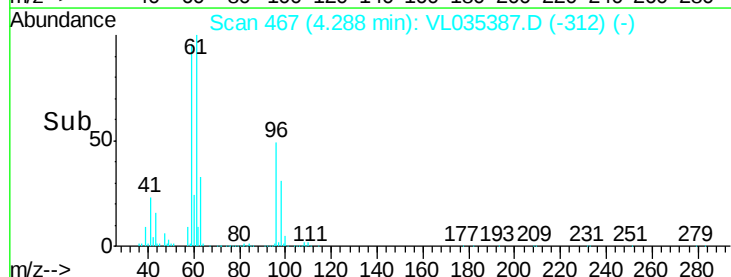
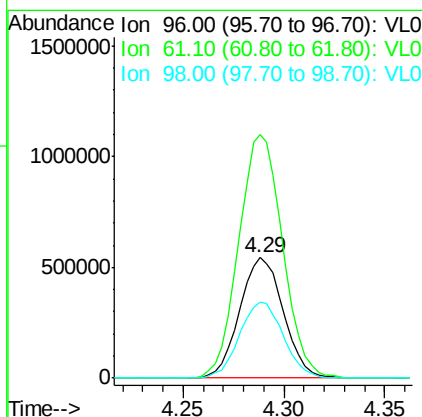
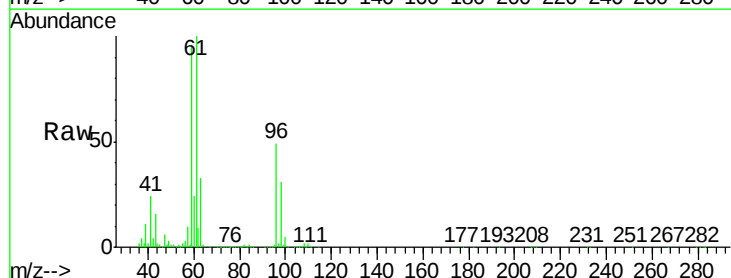
MMDadoda
 8/17/2020 5:43:57 PM

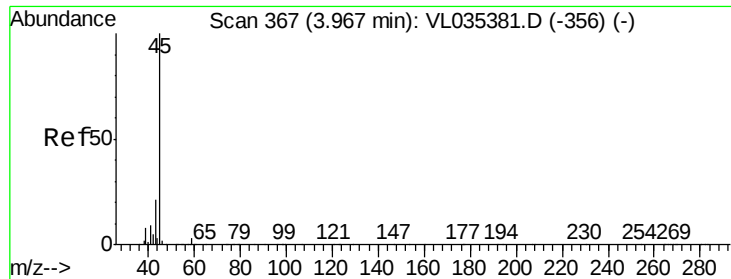


#18

1,1-Dichloroethene
 Concen: 11.736 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	201.9	159.0	238.4
98	63.2	50.3	75.5





#19

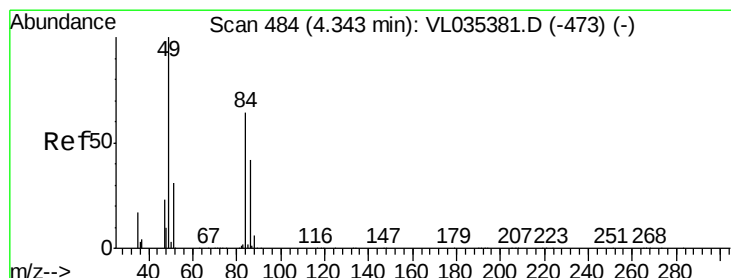
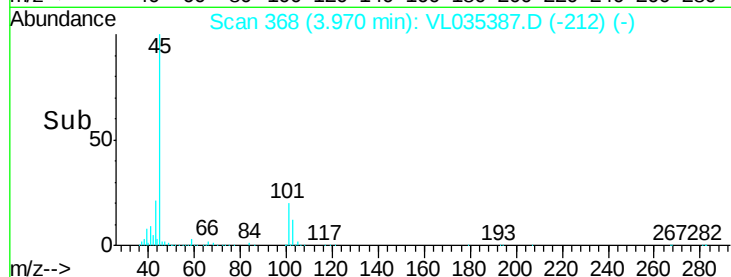
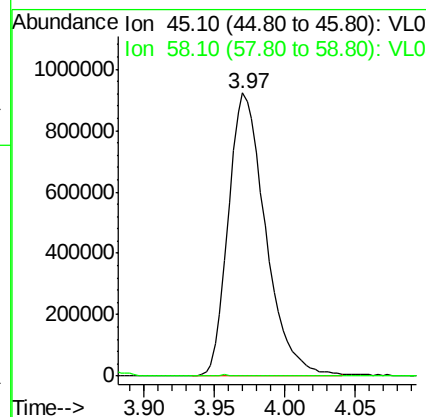
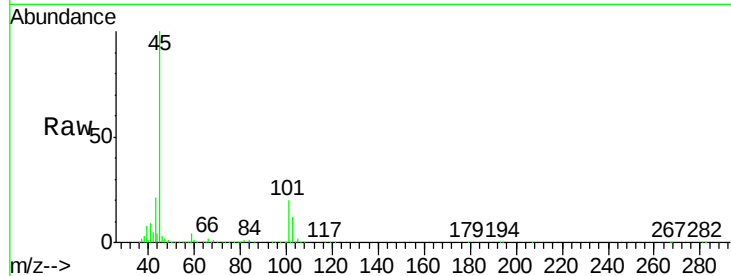
Isopropyl Alcohol
 Concen: 14.260 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1703349
 Ion Ratio Lower Upper
 45 100
 58 32.3 24.9 37.3

Manual Integrations
 APPROVED

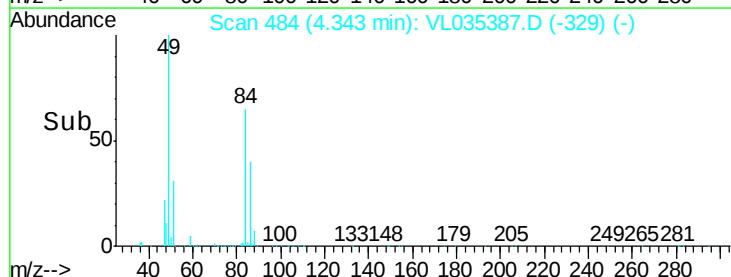
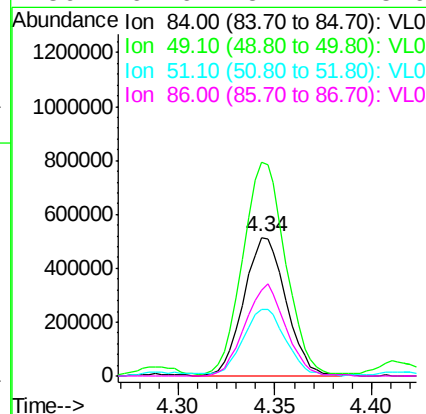
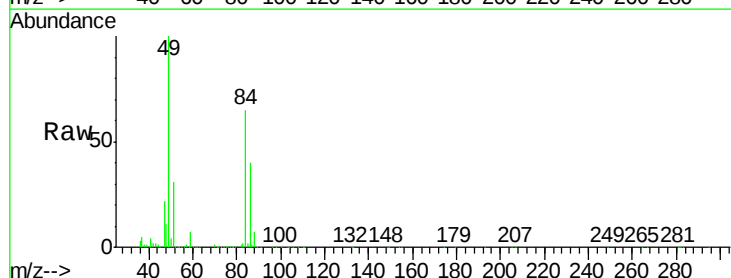
MMDadoda
 8/17/2020 5:43:57 PM

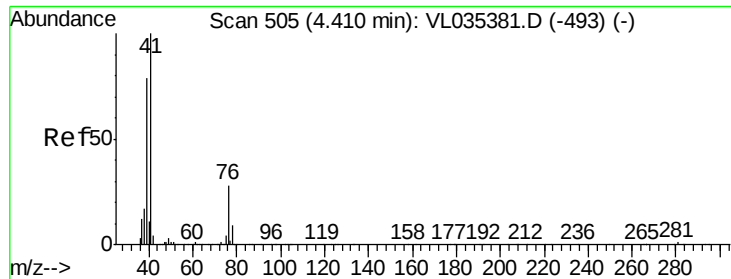


#20

Methylene Chloride
 Concen: 10.102 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion: 84 Resp: 776295
 Ion Ratio Lower Upper
 84 100
 49 153.4 125.7 188.5
 51 48.1 38.5 57.7
 86 61.6 52.4 78.6





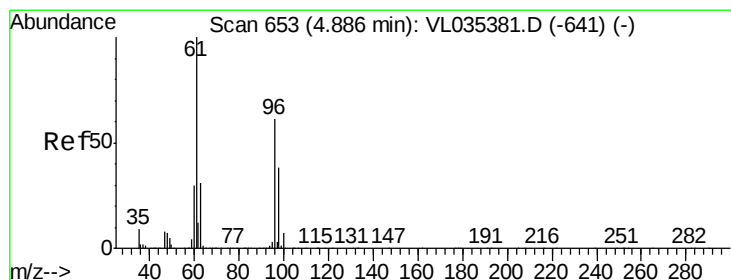
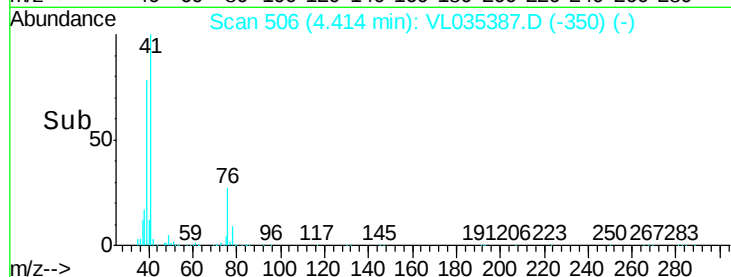
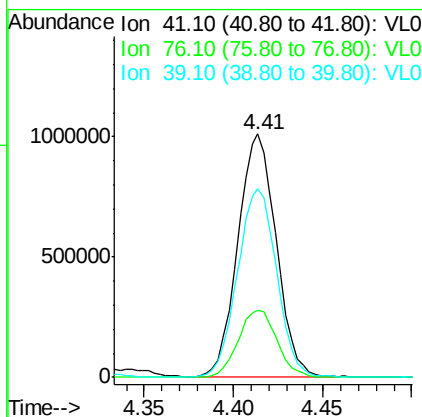
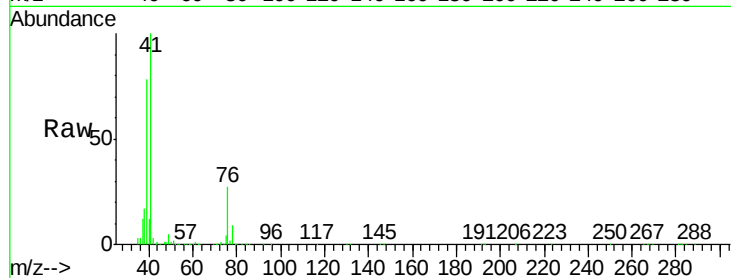
#21
Allvl Chloride
Concen: 13.938 ppbv
RT: 4.41 min Scan# 506
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.2	22.4	33.6
39	79.5	63.0	94.4

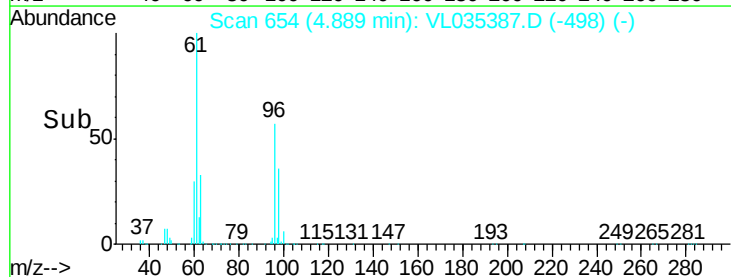
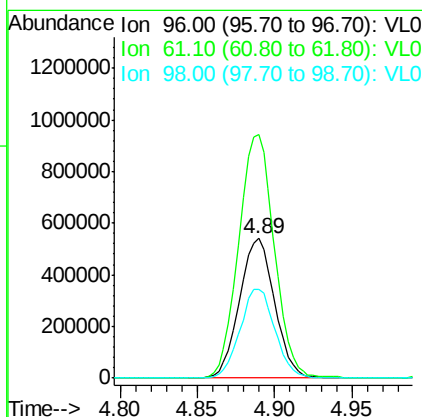
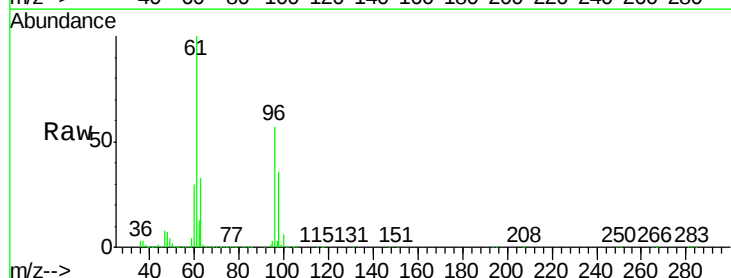
Manual Integrations
APPROVED

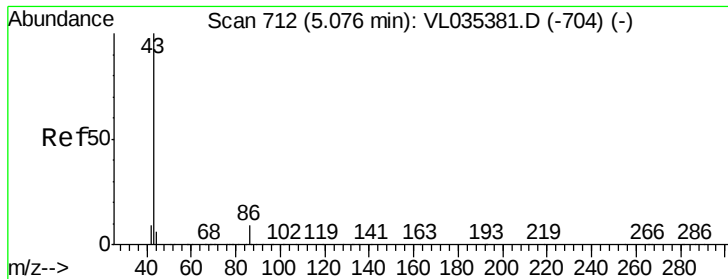
MMDadoda
8/17/2020 5:43:57 PM



#22
trans-1,2-Dichloroethene
Concen: 12.573 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.1	131.8	197.6
98	63.0	49.6	74.4





#23

Vinyl Acetate

Concen: 19.313 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.01 min

Lab File: VL035387.D

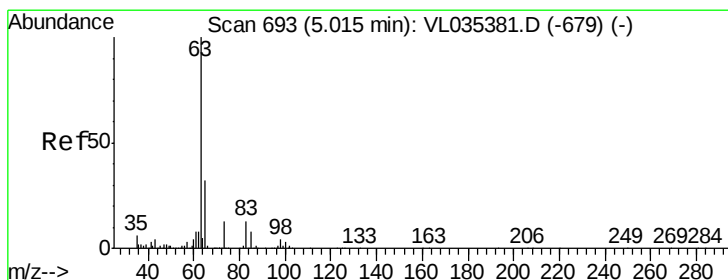
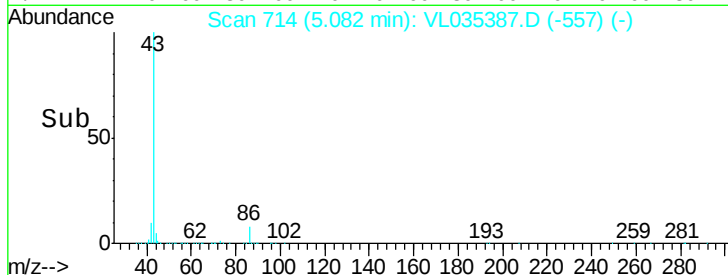
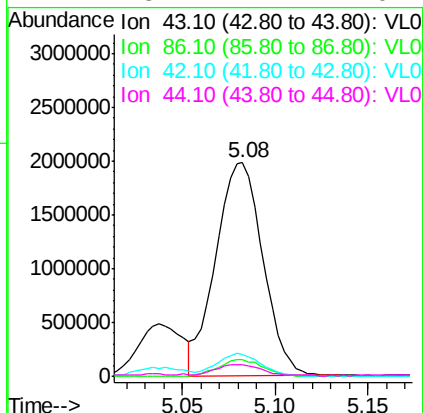
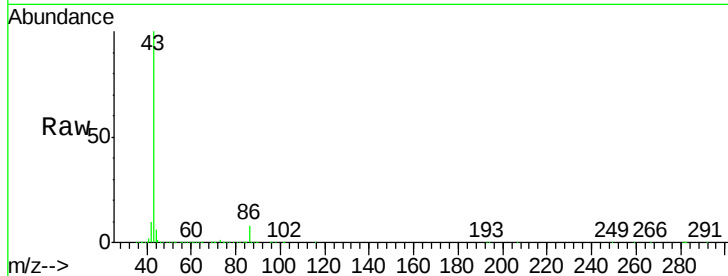
Acq: 12 Aug 2020 15:59

Tot Ion	43	Resp	3489641
Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.8	8.8
42	10.2	8.0	12.0
44	5.2	4.2	6.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



#24

1,1-Dichloroethane

Concen: 13.886 ppbv

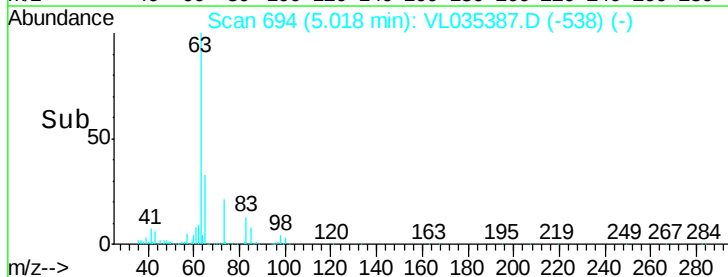
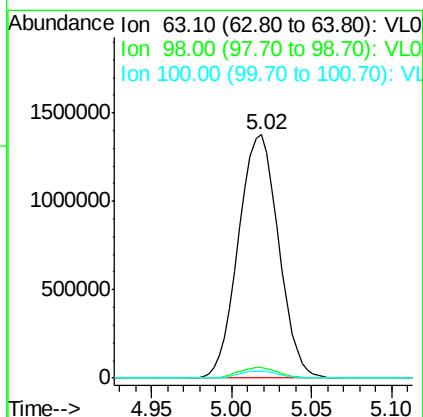
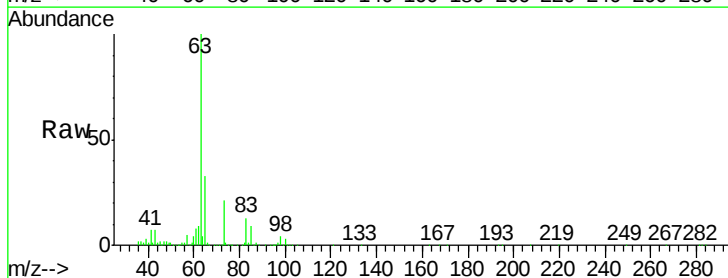
RT: 5.02 min Scan# 694

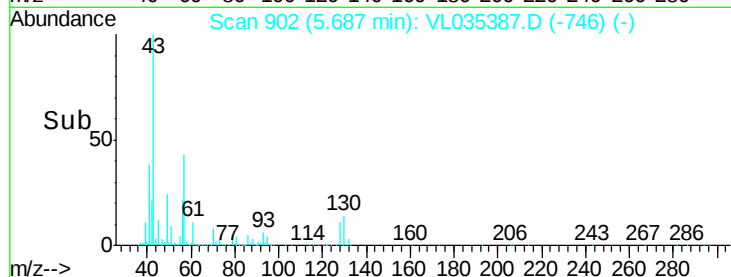
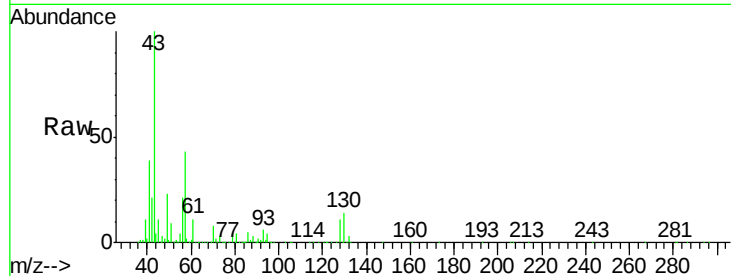
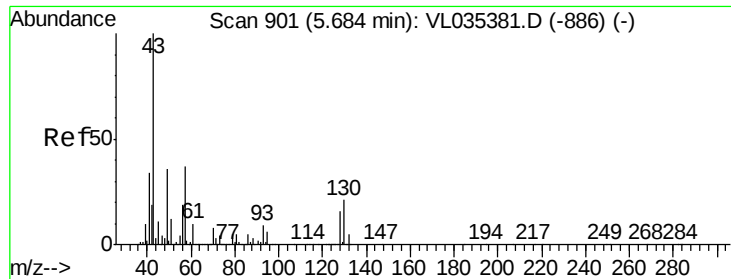
Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Tgt Ion	63	Resp	2357962
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.2	6.6
100	2.9	1.4	4.0





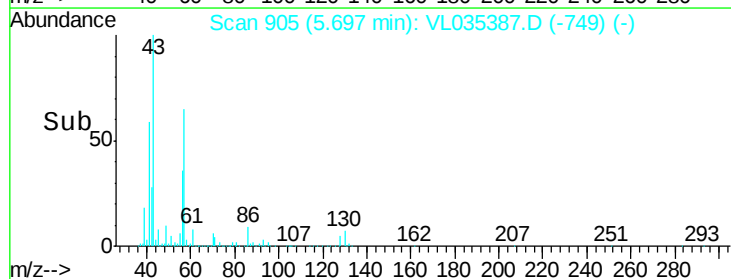
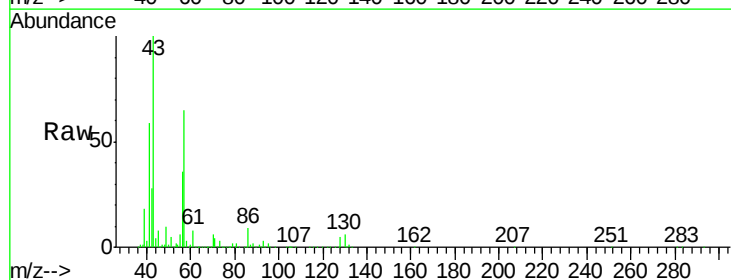
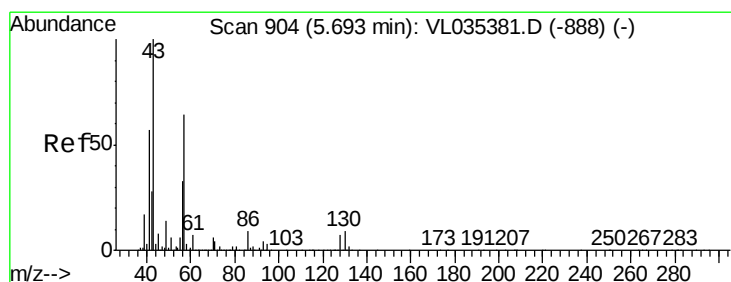
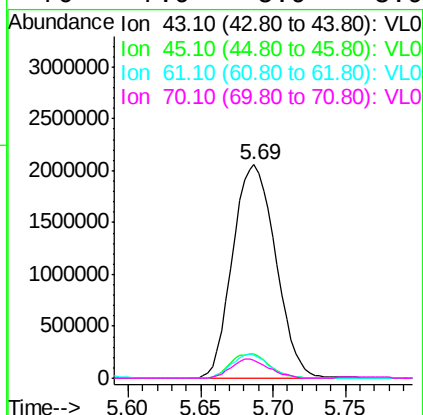
#25
Ethyl Acetate
Concen: 14.843 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tot Ion	Ion	Ratio	Lower	Upper
43	43.10 (42.80 to 43.80): VL0	100		
45	45.10 (44.80 to 45.80): VL0	10.5	8.0	12.0
61	61.10 (60.80 to 61.80): VL0	9.8	7.4	11.2
70	70.10 (69.80 to 70.80): VL0	7.9	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

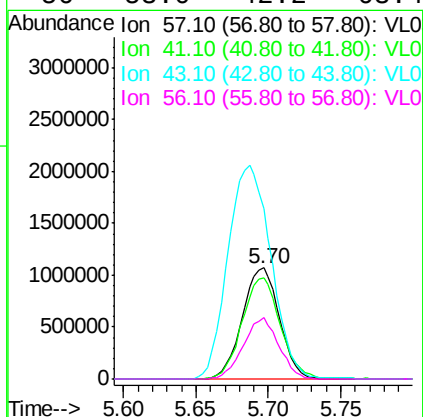
Manual Integrations
APPROVED

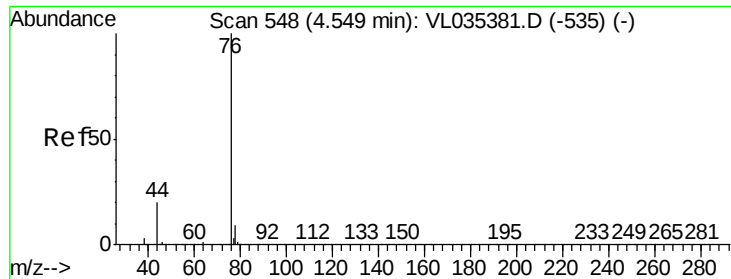
MMDadoda
8/17/2020 5:43:57 PM



#26
Hexane
Concen: 15.300 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ion	Ratio	Lower	Upper
57	57.10 (56.80 to 57.80): VL0	100		
41	41.10 (40.80 to 41.80): VL0	95.2	75.4	113.2
43	43.10 (42.80 to 43.80): VL0	225.0	184.1	276.1
56	56.10 (55.80 to 56.80): VL0	53.0	42.2	63.4





#27

Carbon Disulfide

Concen: 13.008 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2259077

Ion Ratio Lower Upper

76 100

44 20.8 17.0 25.4

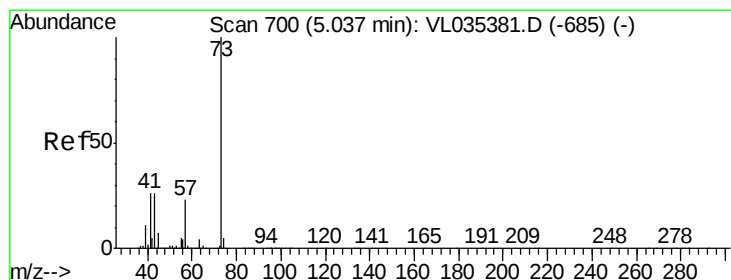
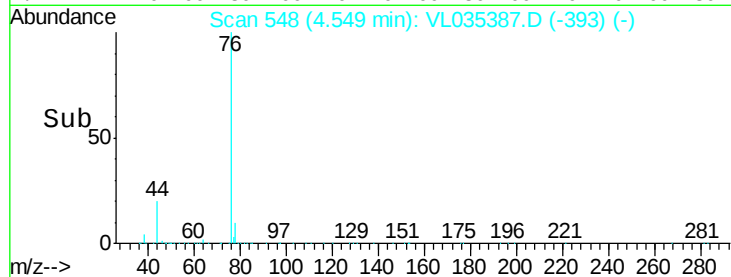
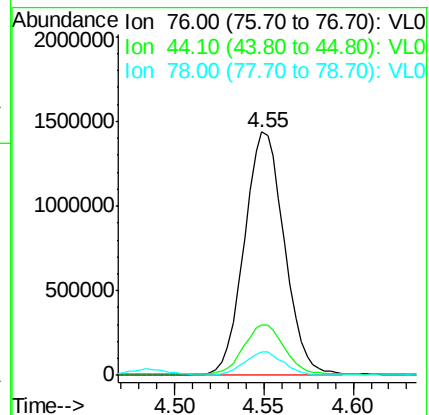
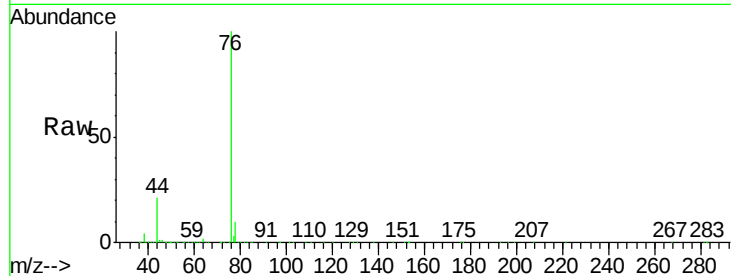
78 9.4 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

8/17/2020 5:43:57 PM



#28

Methyl tert-Butyl Ether

Concen: 17.656 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL035387.D

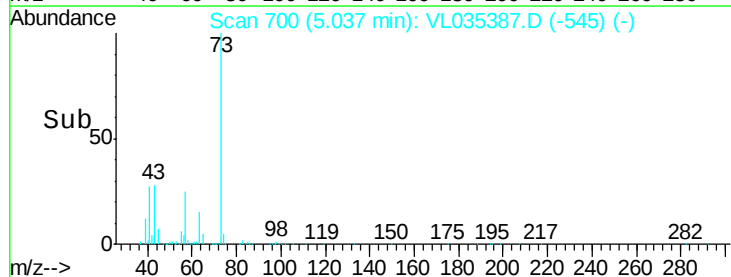
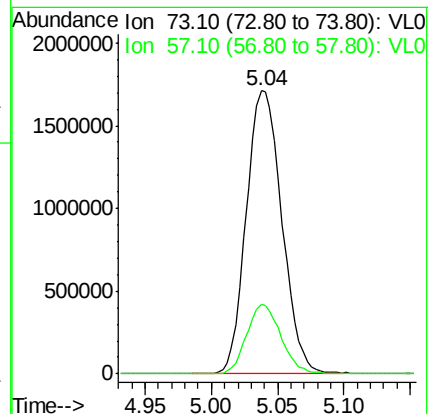
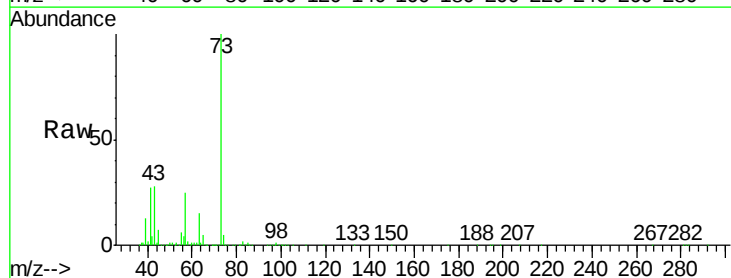
Acq: 12 Aug 2020 15:59

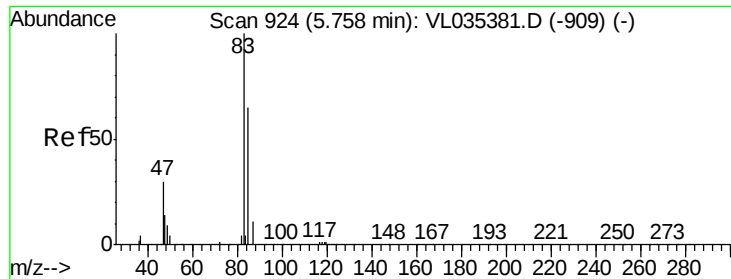
Tgt Ion: 73 Resp: 3188490

Ion Ratio Lower Upper

73 100

57 23.9 19.0 28.4





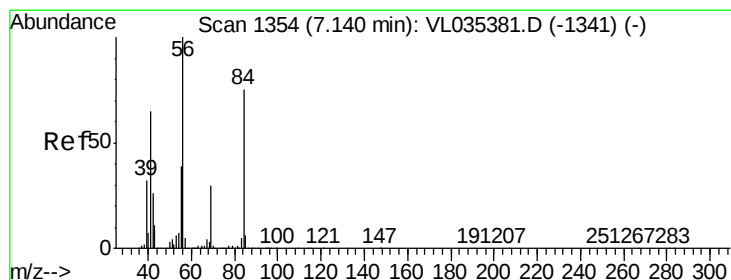
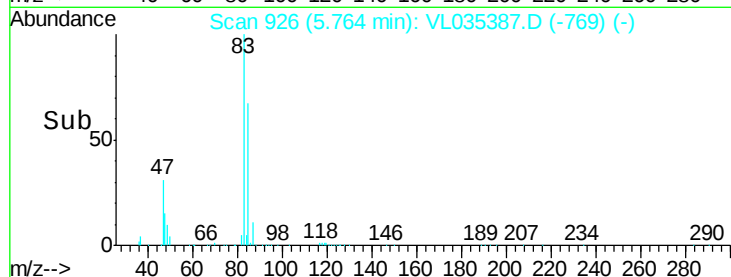
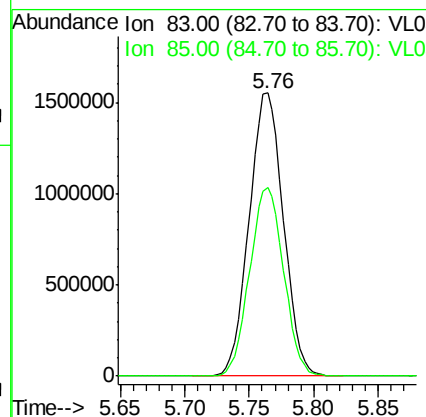
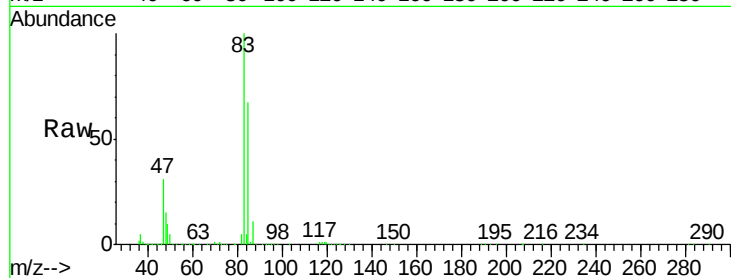
#29
Chloroform
Concen: 13.436 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2876802
Ion Ratio Lower Upper
83 100
85 66.3 51.7 77.5

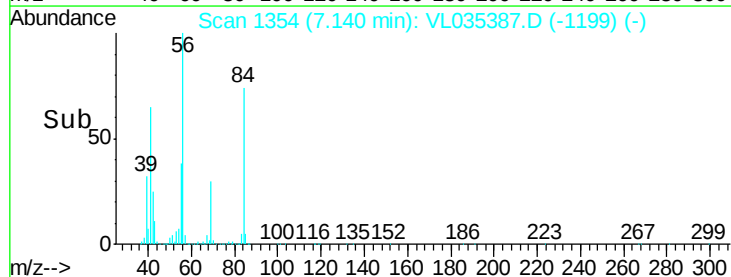
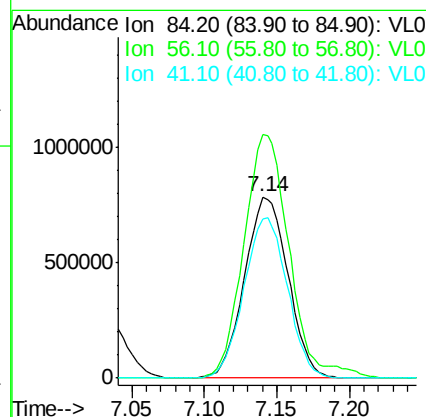
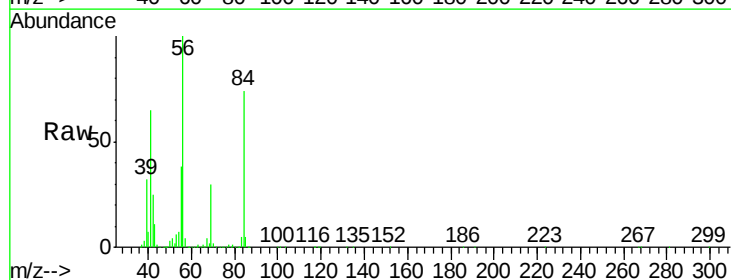
Manual Integrations
APPROVED

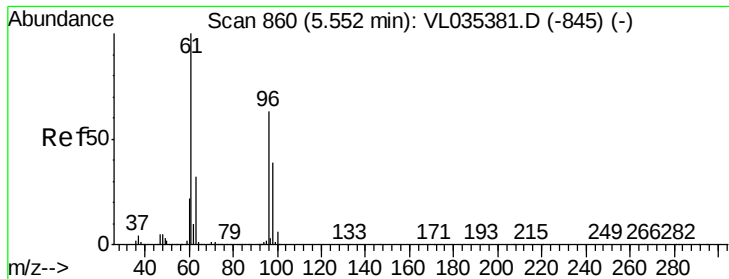
MMDadoda
8/17/2020 5:43:57 PM



#30
Cyclohexane
Concen: 17.446 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion: 84 Resp: 1643028
Ion Ratio Lower Upper
84 100
56 140.5 115.8 173.6
41 88.5 71.4 107.0





#31

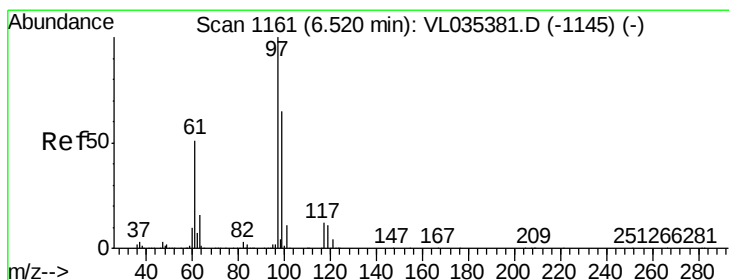
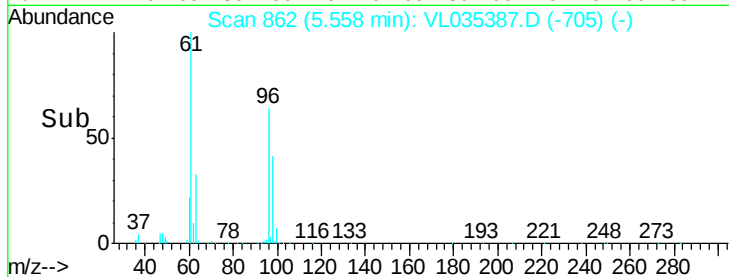
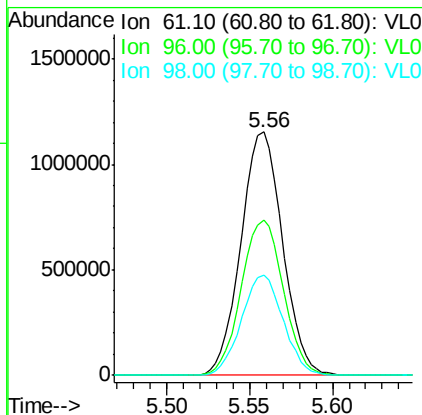
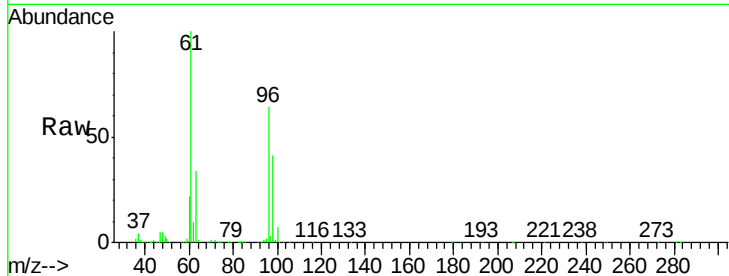
cis-1,2-Dichloroethene
 Concen: 18.277 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. 0.01 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.9	50.5	75.7
98	41.2	31.5	47.3

Manual Integrations
 APPROVED

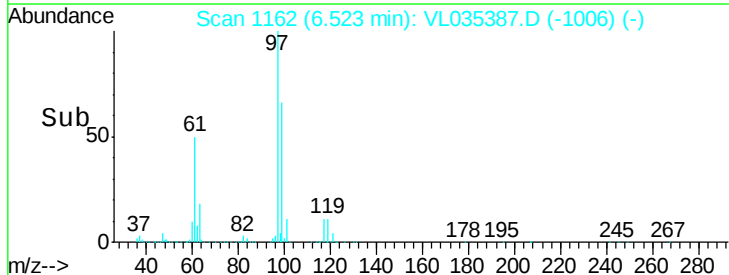
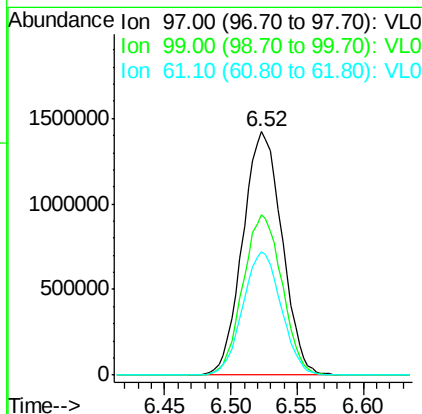
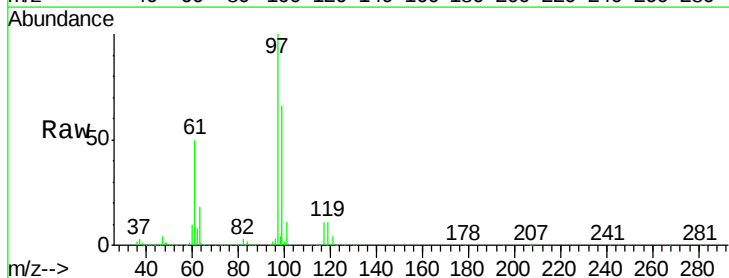
MMDadoda
 8/17/2020 5:43:57 PM

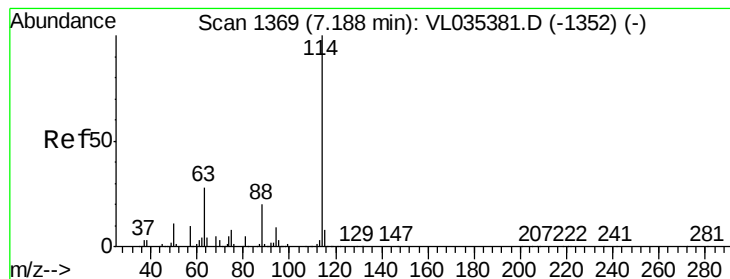


#32

1,1,1-Trichloroethane
 Concen: 13.032 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.8	77.8
61	49.5	39.6	59.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 3285999

Ion Ratio Lower Upper

114 100

63 27.5 21.5 32.3

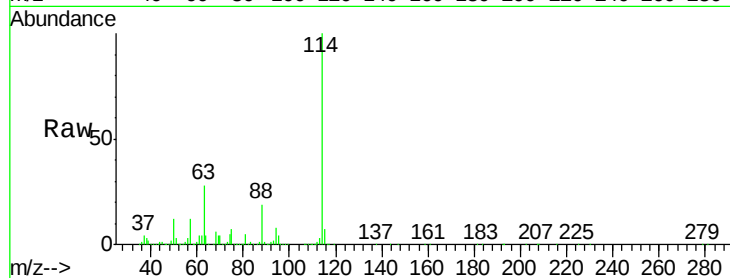
88 19.5 15.6 23.4

Manual Integrations

APPROVED

MMDadoda

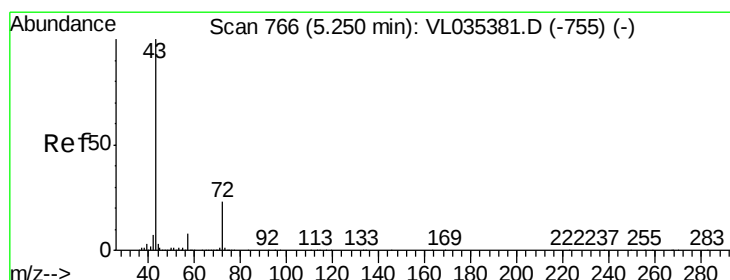
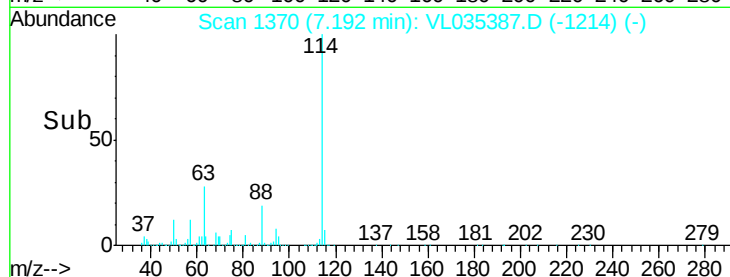
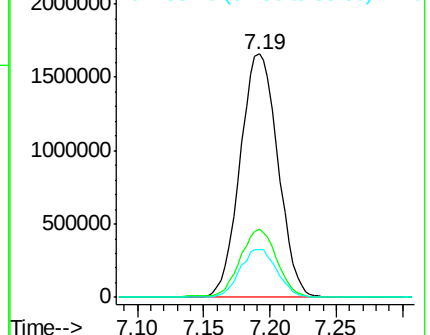
8/17/2020 5:43:57 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 18.332 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL035387.D

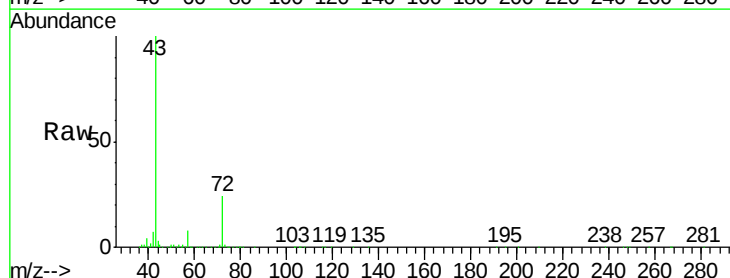
Acq: 12 Aug 2020 15:59

Tgt Ion: 43 Resp: 2966110

Ion Ratio Lower Upper

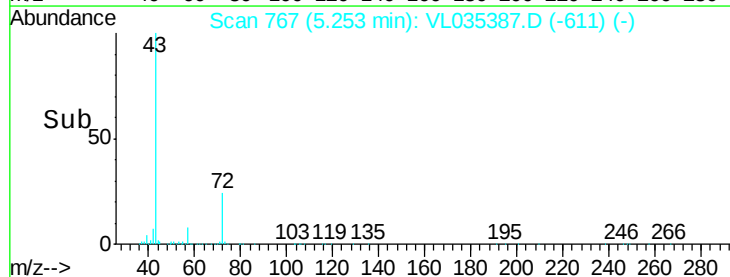
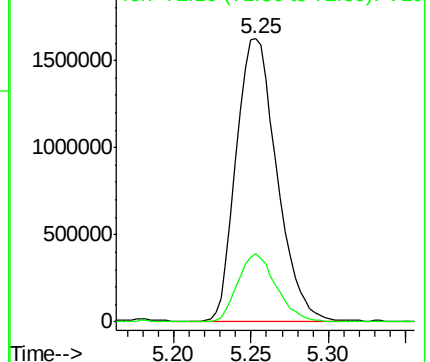
43 100

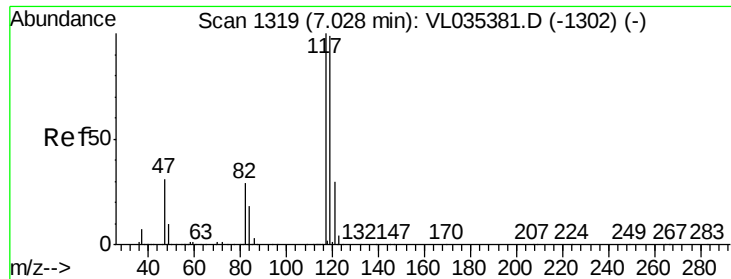
72 22.9 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





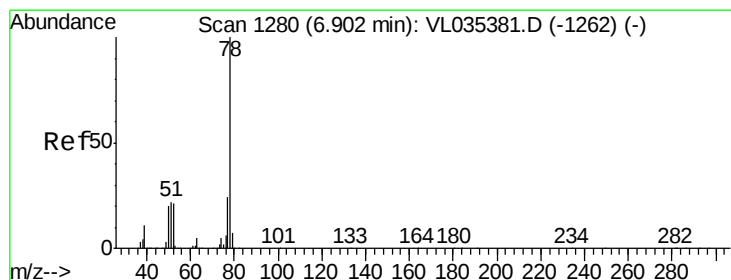
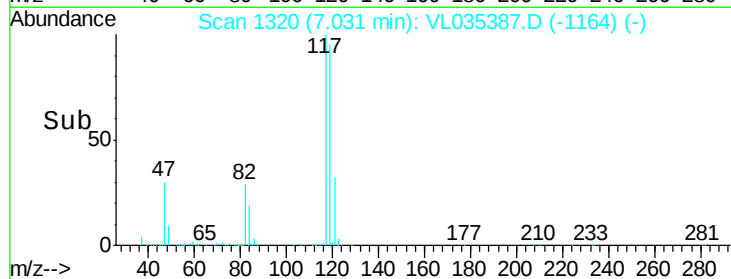
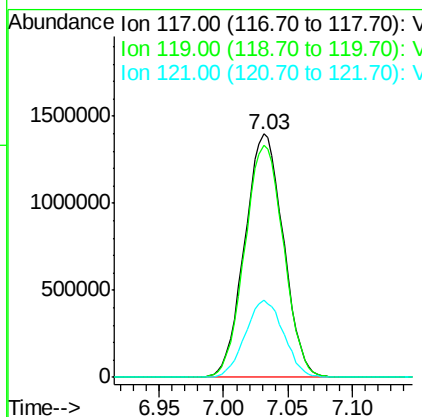
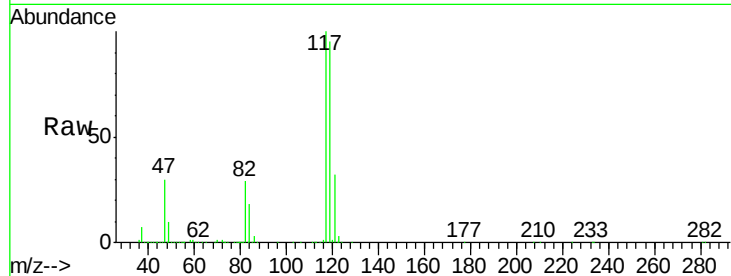
#35
Carbon Tetrachloride
Concen: 12.919 ppbv
RT: 7.03 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.5	79.4	119.0
121	31.8	24.3	36.5

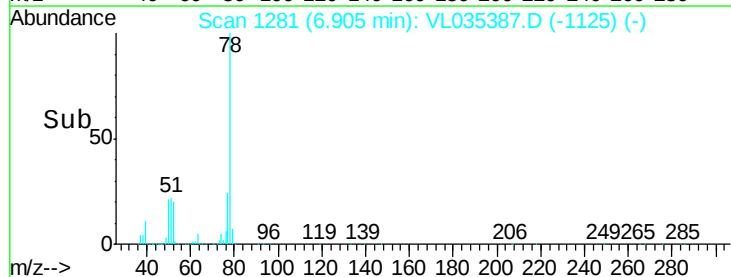
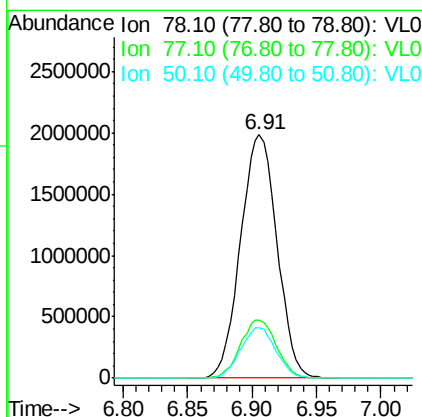
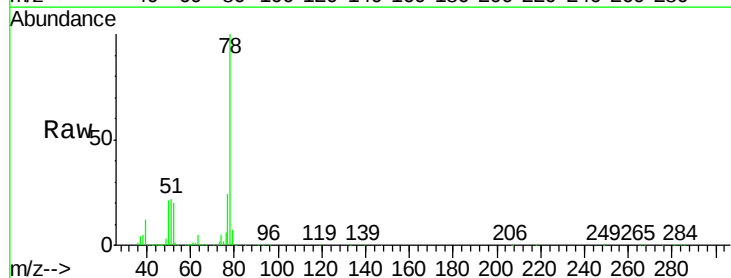
Manual Integrations
APPROVED

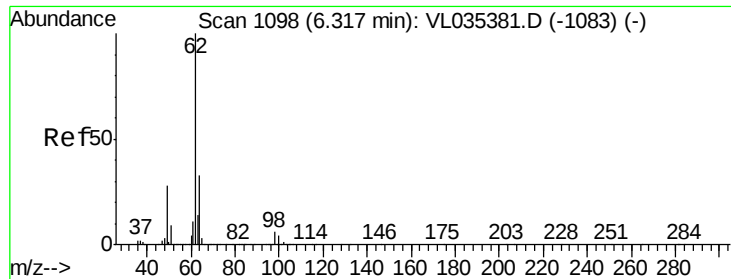
MMDadoda
8/17/2020 5:43:57 PM



#36
Benzene
Concen: 17.610 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.8	15.8	23.6





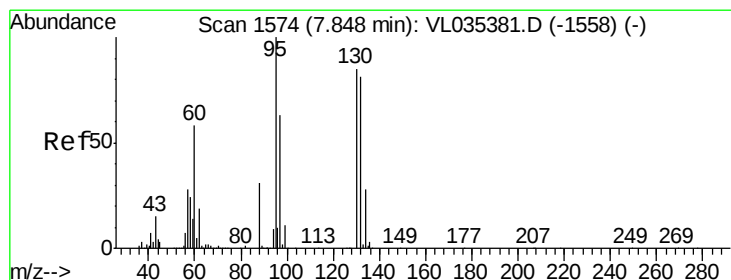
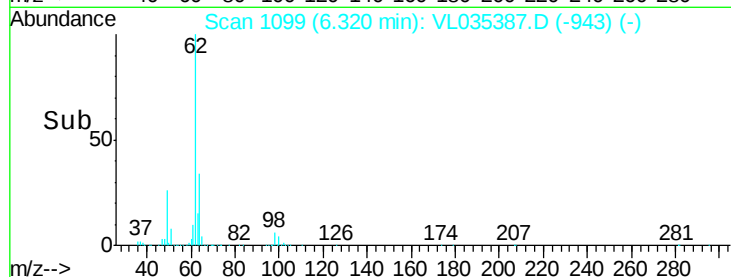
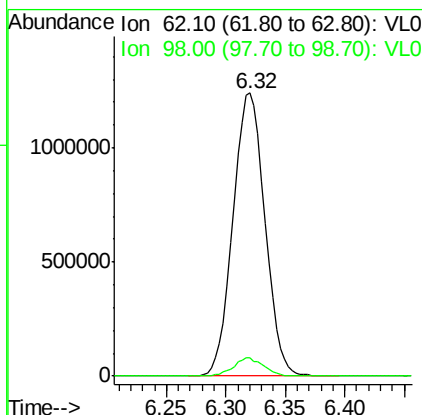
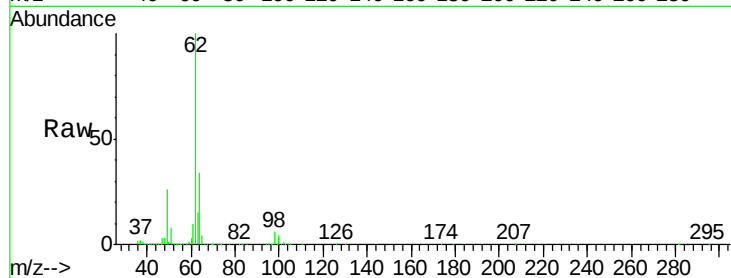
#37
 1,2-Dichloroethane
 Concen: 14.893 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7

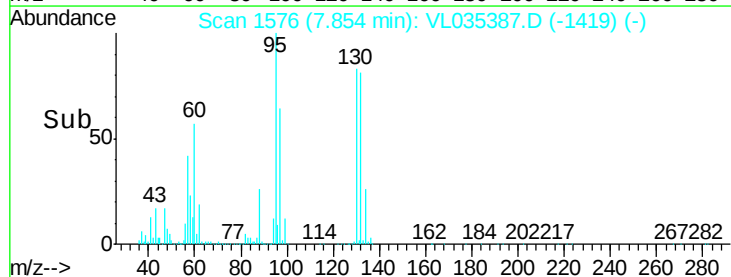
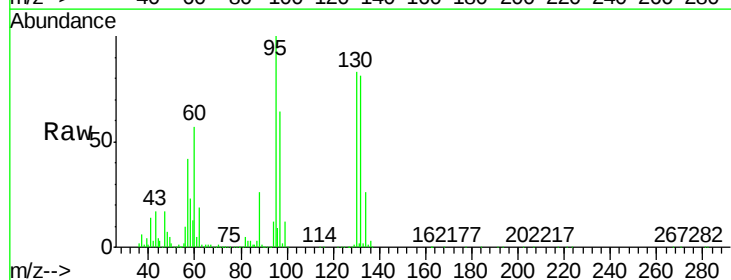
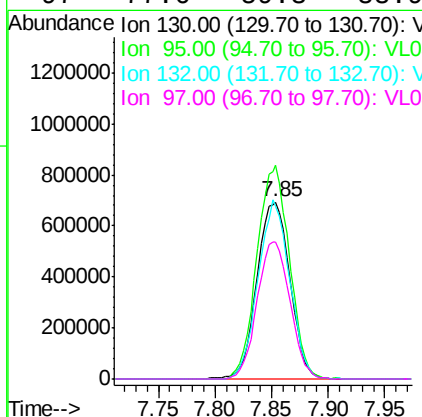
Manual Integrations
 APPROVED

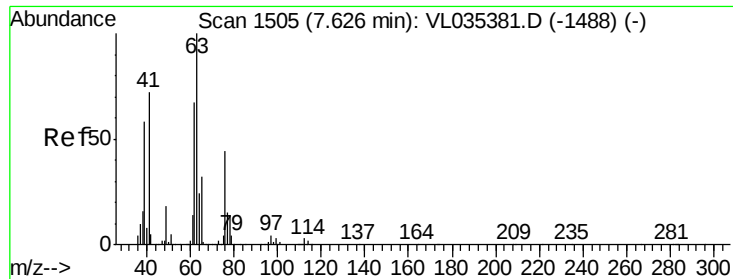
MMDadoda
 8/17/2020 5:43:57 PM



#38
 Trichloroethene
 Concen: 13.727 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.5	94.2	141.4
132	97.8	76.6	114.8
97	77.6	59.3	88.9





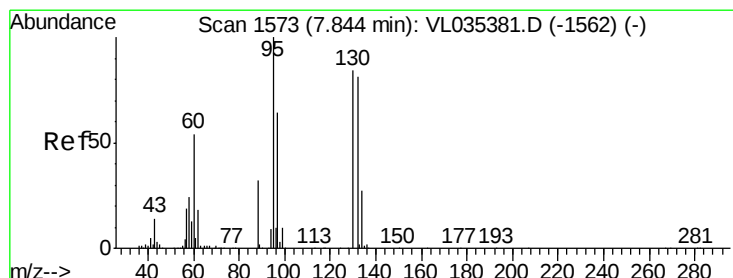
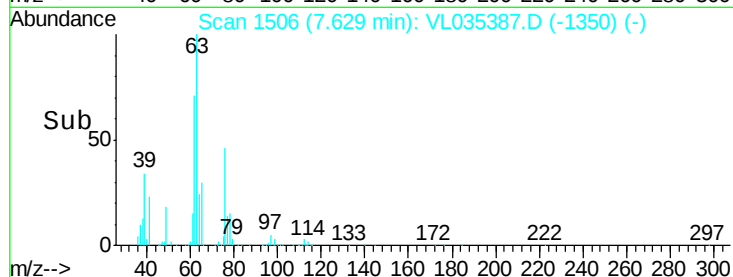
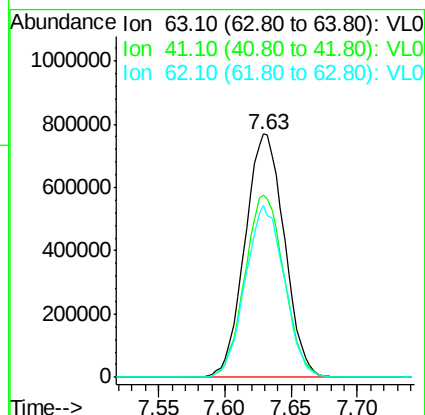
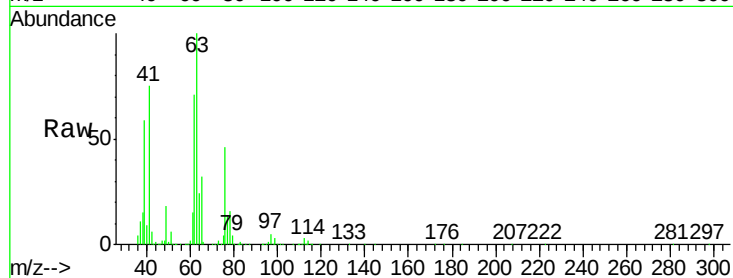
#39
 1,2-Dichloropropane
 Concen: 17.734 ppbv
 RT: 7.63 min Scan# 1506
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.6	57.4	86.2
62	70.5	53.6	80.4

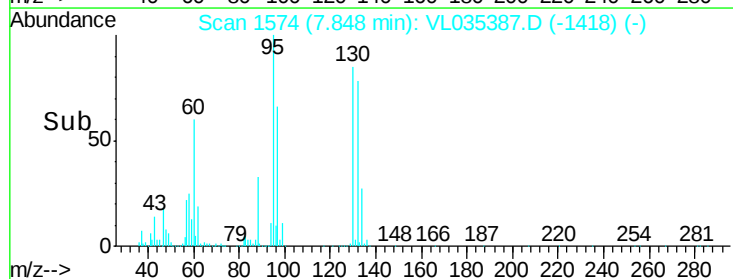
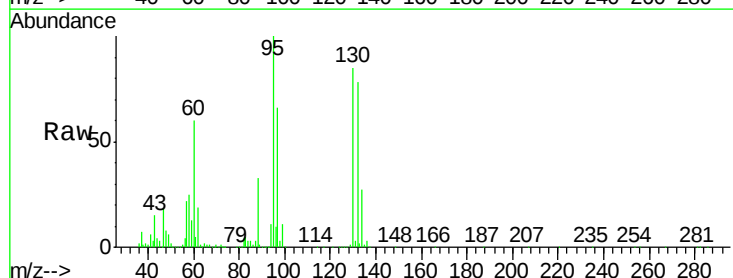
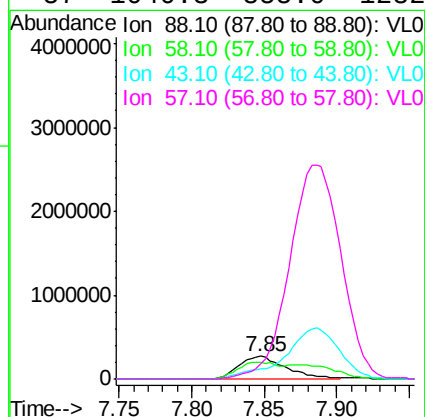
Manual Integrations
 APPROVED

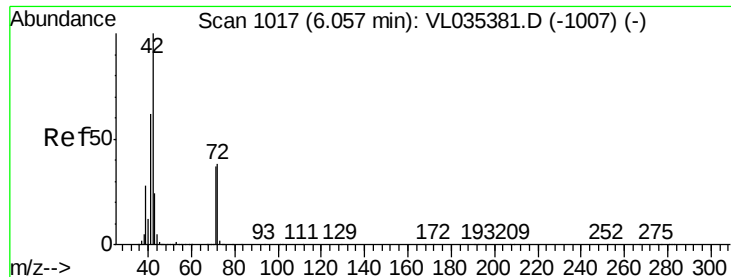
MMDadoda
 8/17/2020 5:43:57 PM



#40
 1,4-Dioxane
 Concen: 15.832 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.9	105.0	157.6
43	259.0	204.2	306.2
57	1040.3	855.0	1282.4





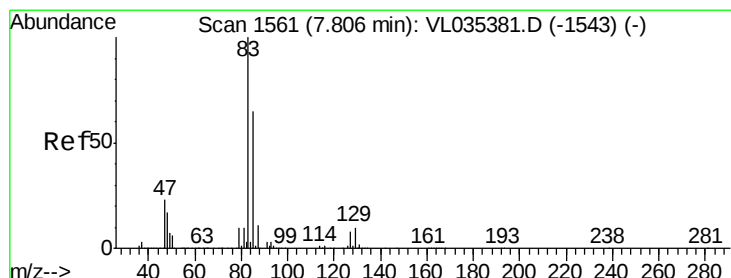
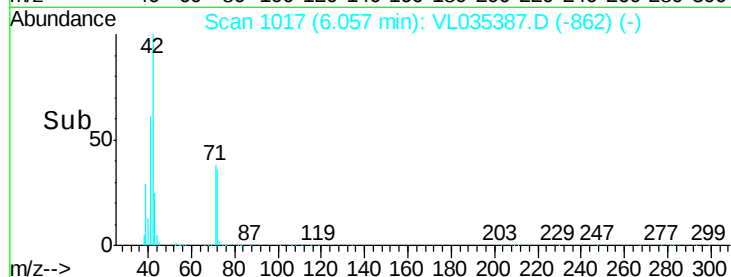
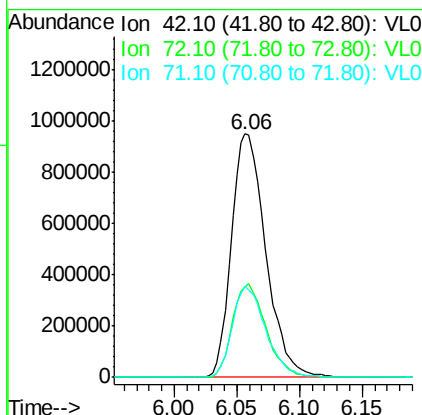
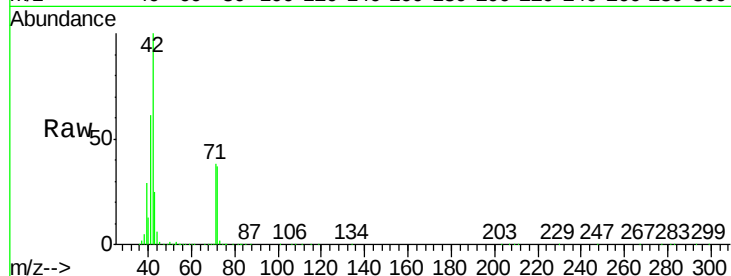
#41
Tetrahydrofuran
Concen: 22.761 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	30.2	45.2
71	36.8	28.6	42.8

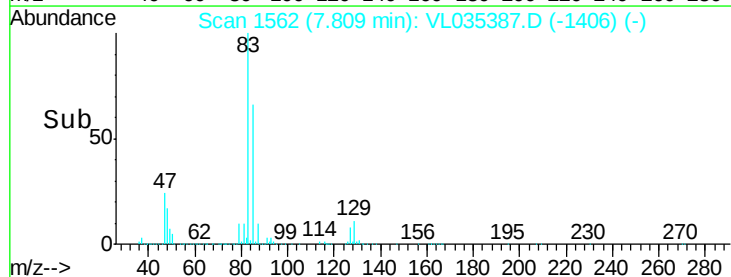
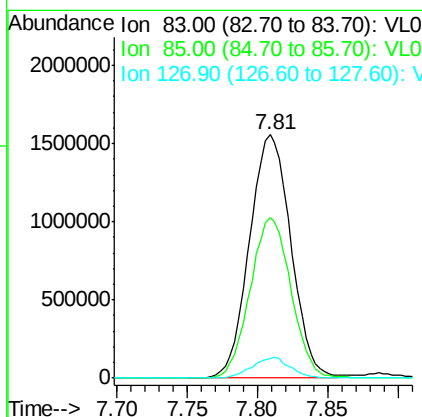
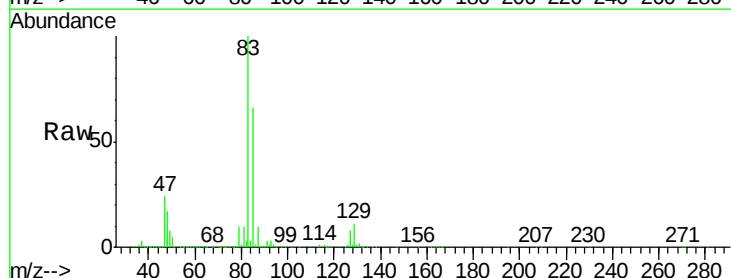
Manual Integrations
APPROVED

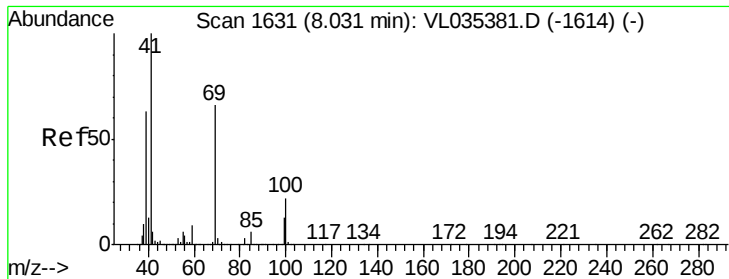
MMDadoda
8/17/2020 5:43:57 PM



#42
Bromodichloromethane
Concen: 15.326 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.2	78.4
127	8.0	6.3	9.5





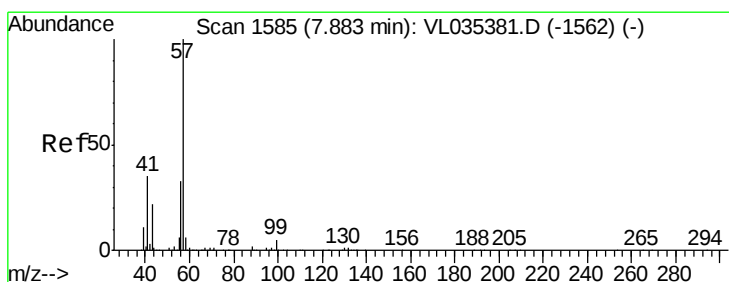
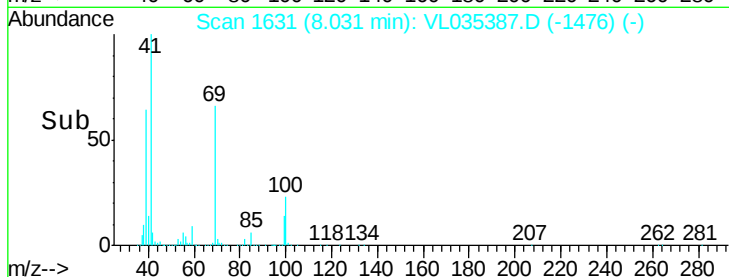
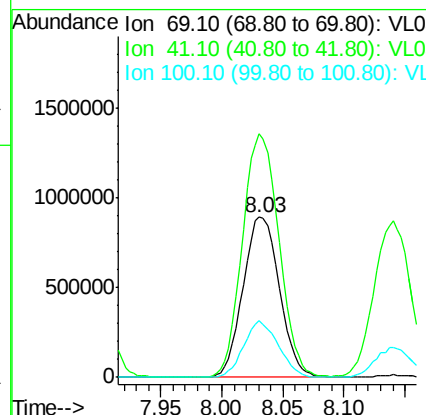
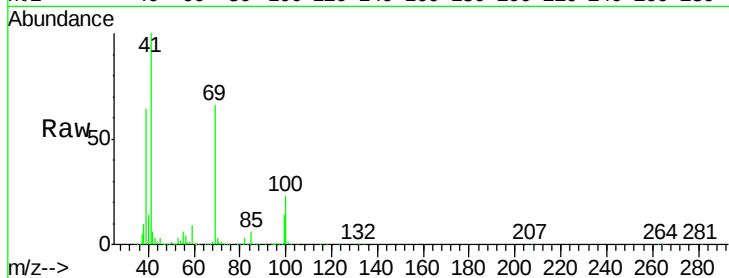
#43
Methvl Methacrilate
Concen: 19.692 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	152.1	123.4	185.2	
100	33.6	26.7	40.1	

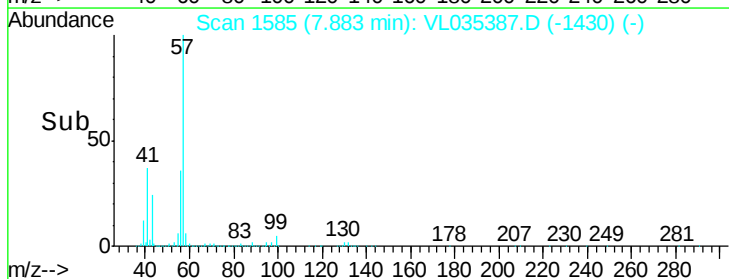
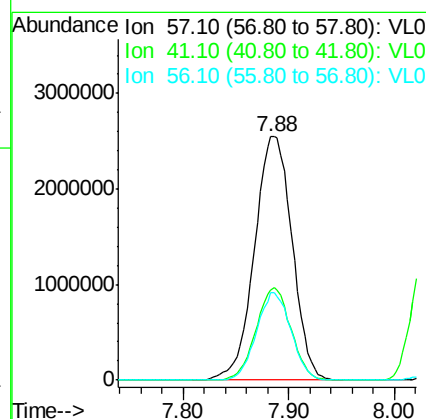
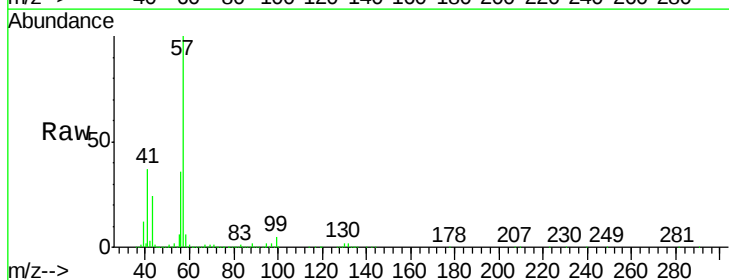
Manual Integrations
APPROVED

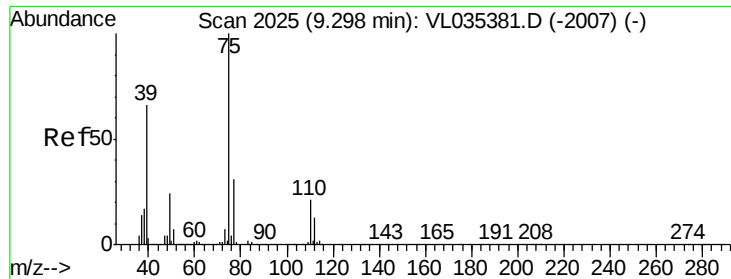
MMDadoda
8/17/2020 5:43:57 PM



#44
2,2,4-Trimethylpentane
Concen: 16.053 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.1	26.9	40.3	
56	33.0	25.6	38.4	





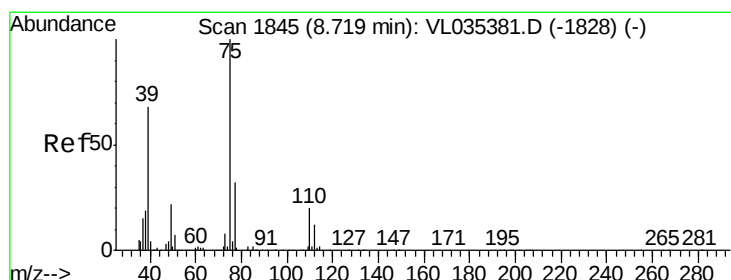
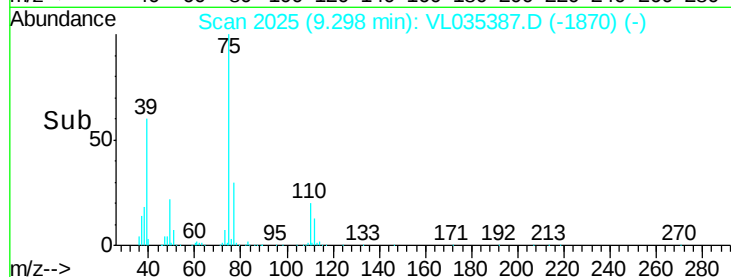
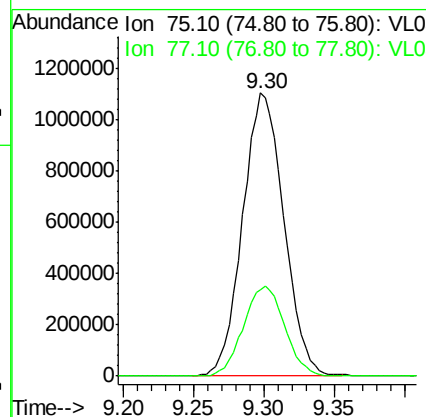
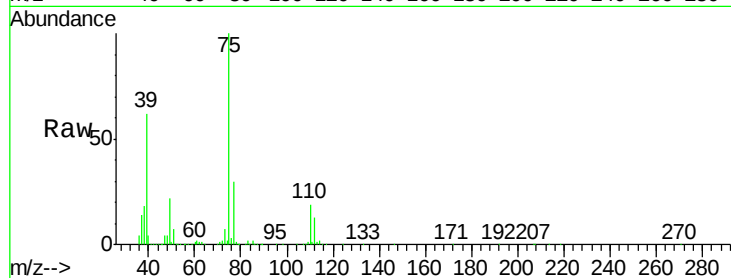
#45
t-1,3-Dichloropropene
Concen: 23.334 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 2259580
Ion Ratio Lower Upper
75 100
77 30.3 25.2 37.8

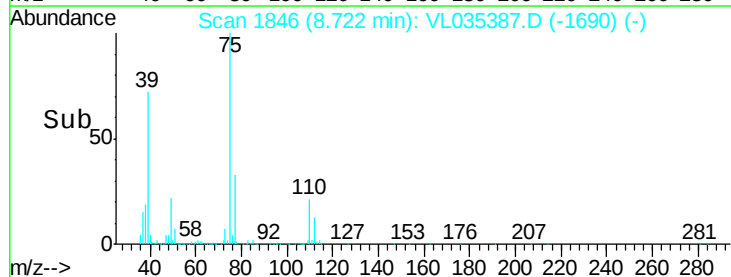
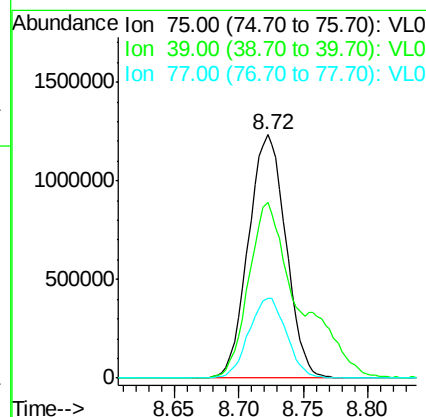
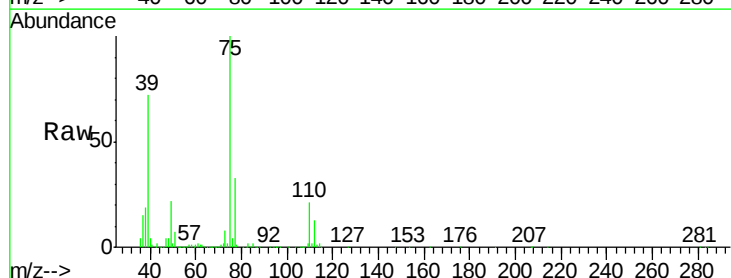
Manual Integrations
APPROVED

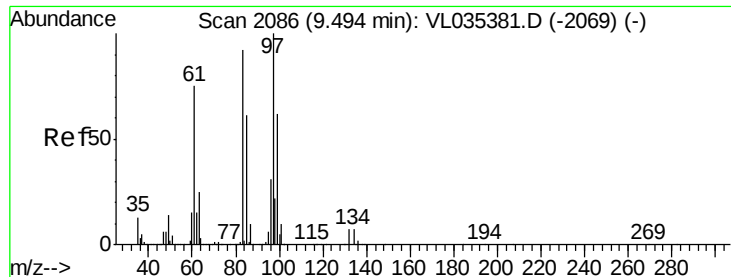
MMDadoda
8/17/2020 5:43:57 PM



#46
cis-1,3-Dichloropropene
Concen: 21.417 ppbv
RT: 8.72 min Scan# 1846
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion: 75 Resp: 2504653
Ion Ratio Lower Upper
75 100
39 72.0 54.2 81.2
77 32.7 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 15.233 ppbv

RT: 9.50 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1645224

Ion Ratio Lower Upper

97 100

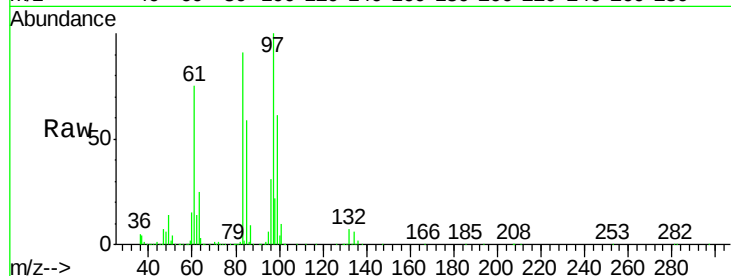
83 91.0 73.9 110.9

85 58.6 49.0 73.6

99 61.1 49.9 74.9

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM

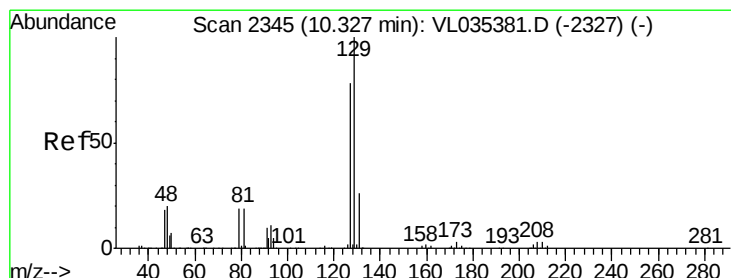
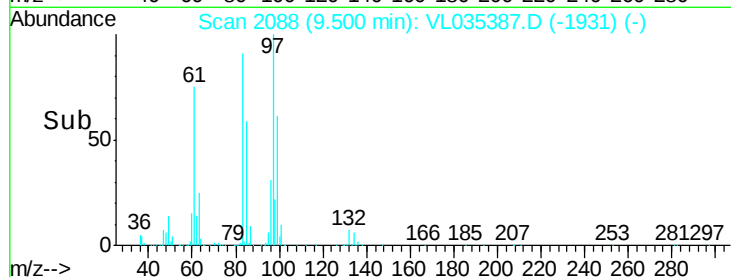
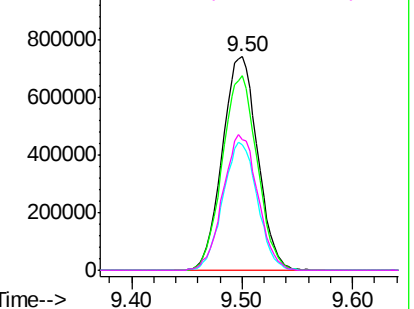


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 15.128 ppbv

RT: 10.33 min Scan# 2346

Delta R.T. 0.00 min

Lab File: VL035387.D

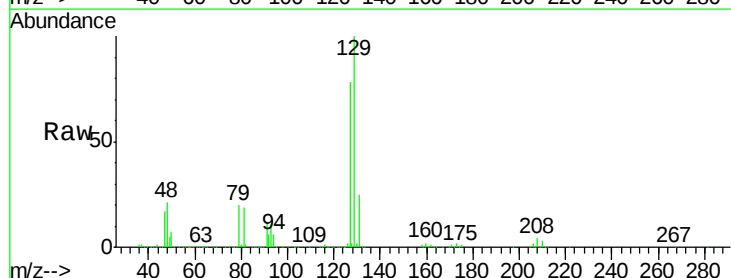
Acq: 12 Aug 2020 15:59

Tgt Ion: 129 Resp: 2676502

Ion Ratio Lower Upper

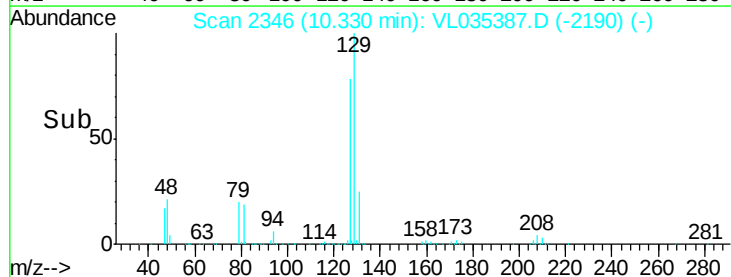
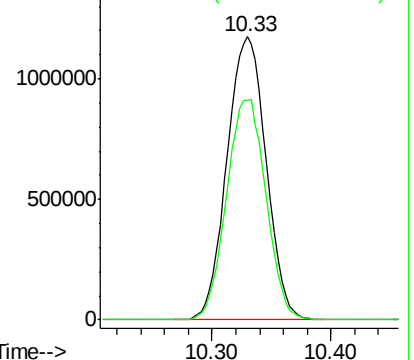
129 100

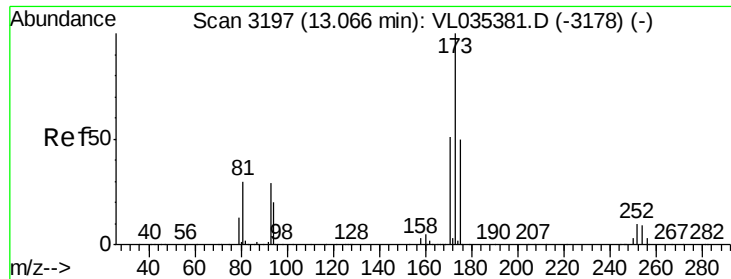
127 78.7 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 14.105 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.01 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2273844

Ion Ratio Lower Upper

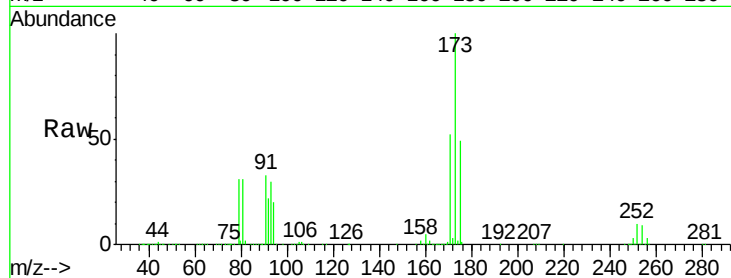
173 100

175 49.1 39.9 59.9

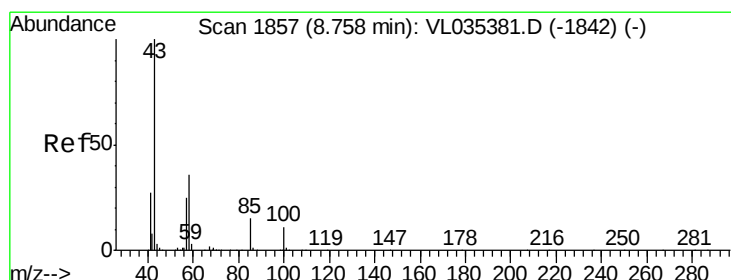
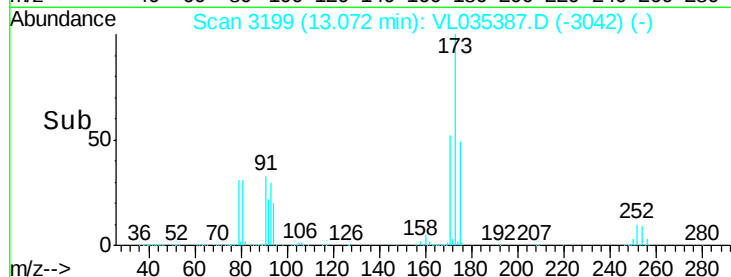
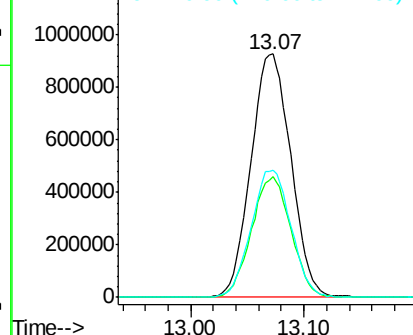
171 52.3 41.8 62.8

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 17.609 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VL035387.D

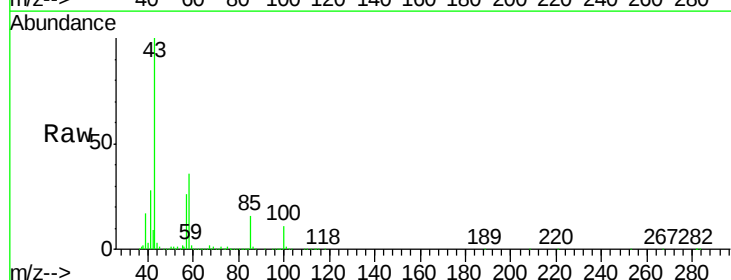
Acq: 12 Aug 2020 15:59

Tgt Ion: 43 Resp: 4350084

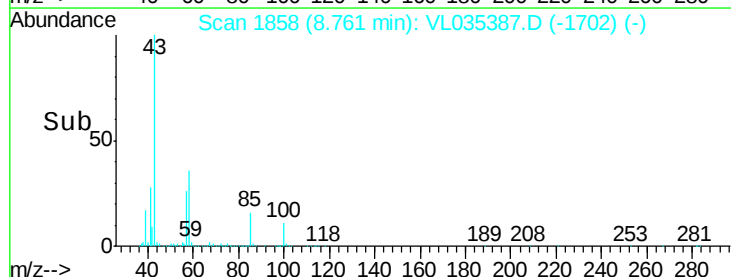
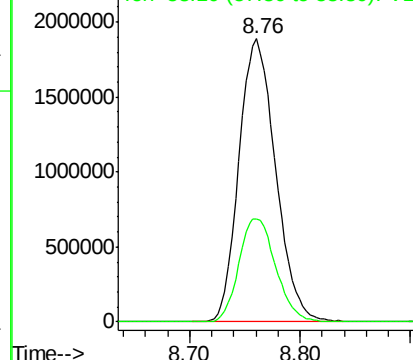
Ion Ratio Lower Upper

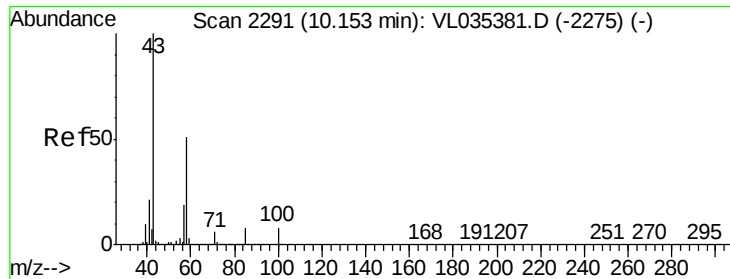
43 100

58 36.8 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





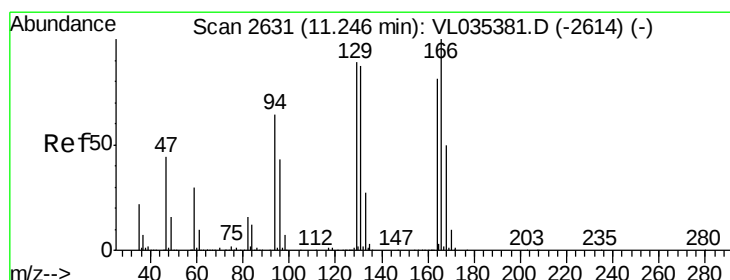
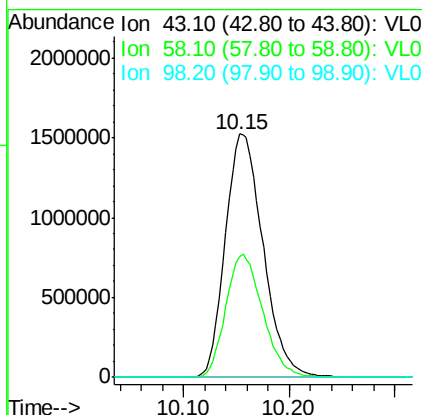
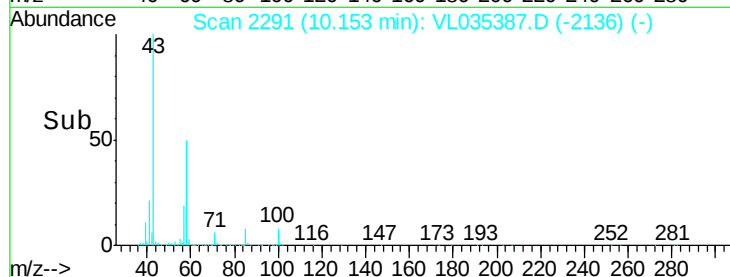
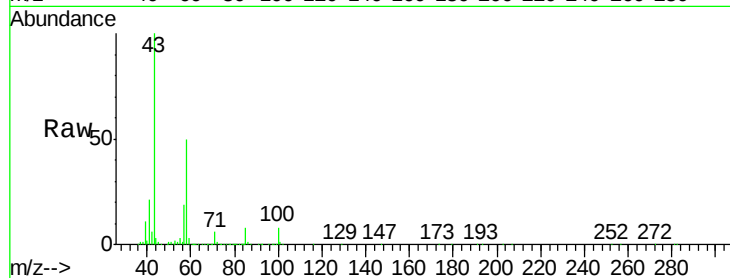
#51
2-Hexanone
Concen: 19.449 ppbv
RT: 10.15 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3766700
Ion Ratio Lower Upper
43 100
58 49.8 39.5 59.3
98 0.1 0.1 0.1#

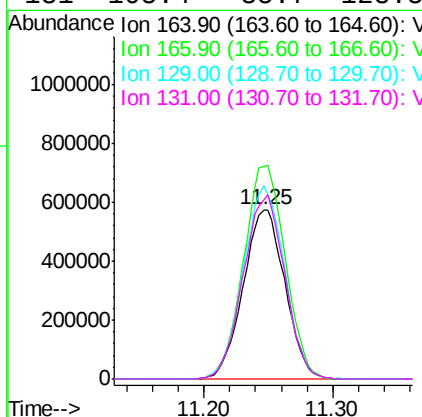
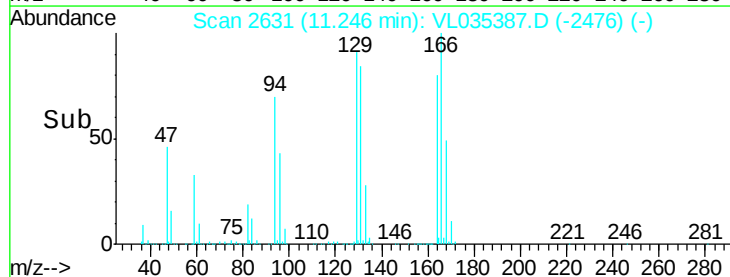
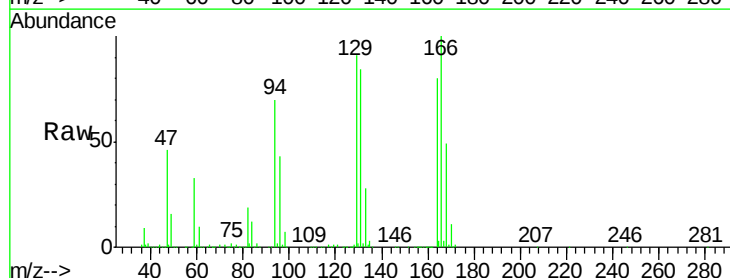
Manual Integrations
APPROVED

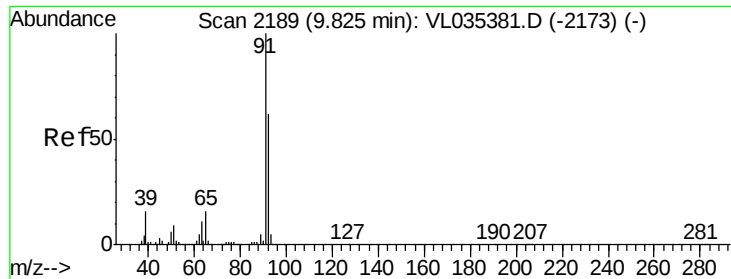
MMDadoda
8/17/2020 5:43:57 PM



#52
Tetrachloroethene
Concen: 14.696 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion:164 Resp: 1292826
Ion Ratio Lower Upper
164 100
166 125.2 98.2 147.2
129 114.1 87.3 130.9
131 105.4 85.7 128.5





#53

Toluene

Concen: 18.759 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4528021

Ion Ratio Lower Upper

91 100

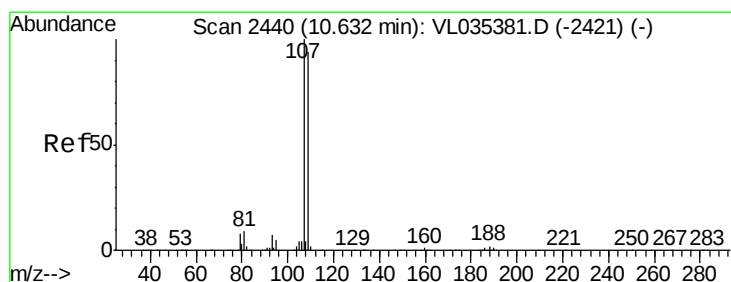
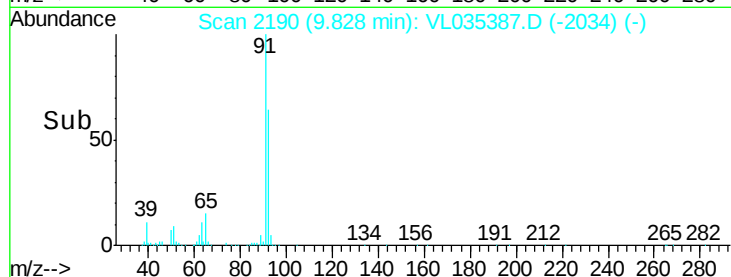
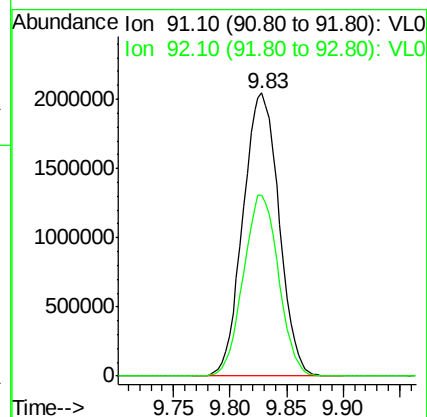
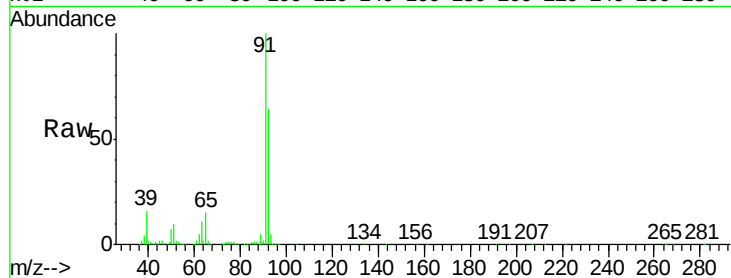
92 62.6 49.1 73.7

Manual Integrations

APPROVED

MMDadoda

8/17/2020 5:43:57 PM



#54

1,2-Dibromoethane

Concen: 16.443 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. 0.01 min

Lab File: VL035387.D

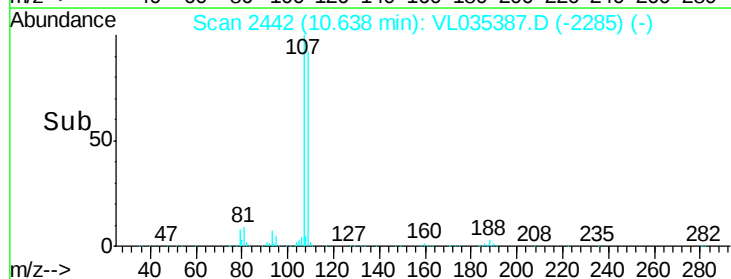
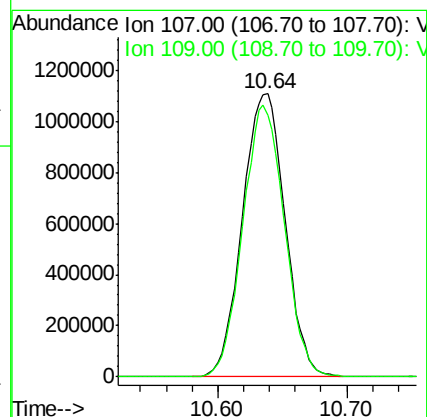
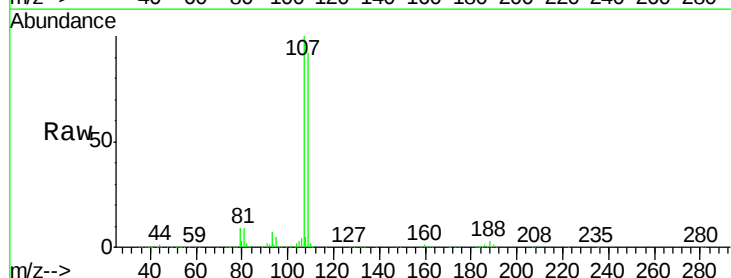
Acq: 12 Aug 2020 15:59

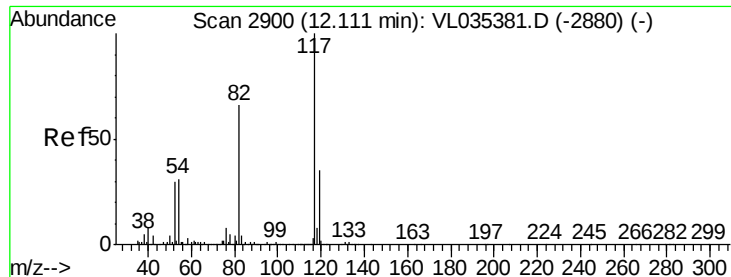
Tgt Ion: 107 Resp: 2547962

Ion Ratio Lower Upper

107 100

109 92.4 75.2 112.8





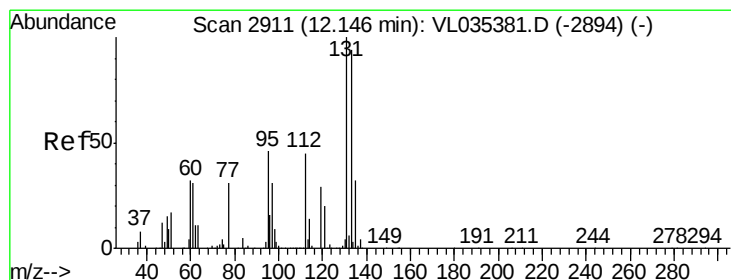
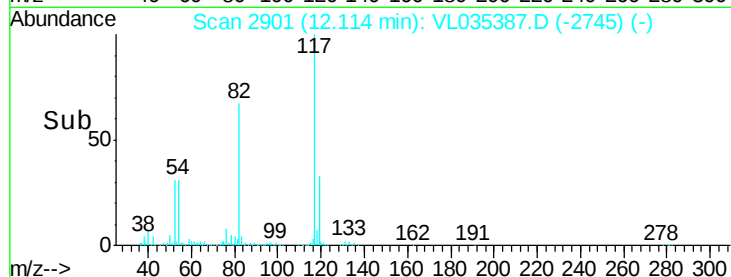
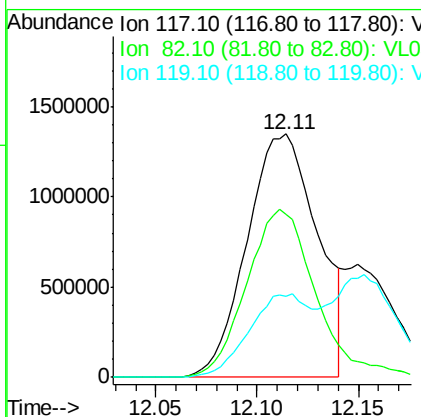
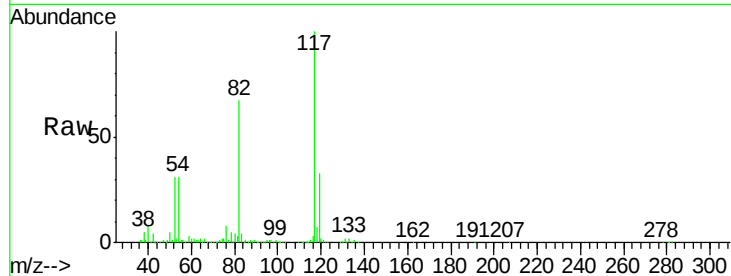
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3266976
Ion Ratio Lower Upper
117 100
82 68.2 53.0 79.6
119 28.9 25.7 38.5

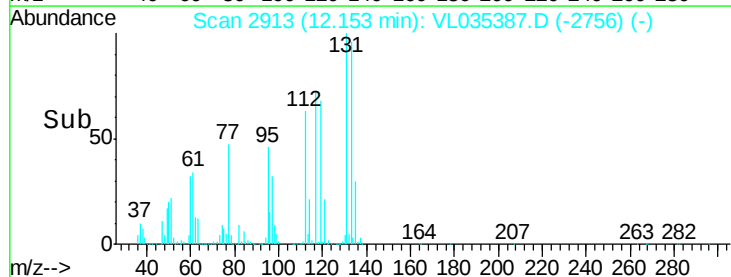
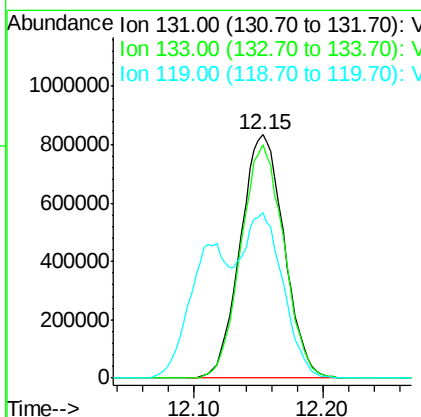
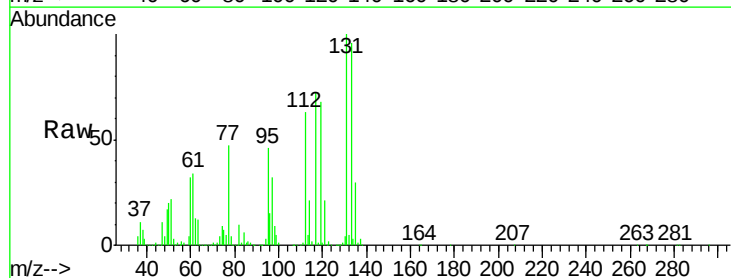
Manual Integrations
APPROVED

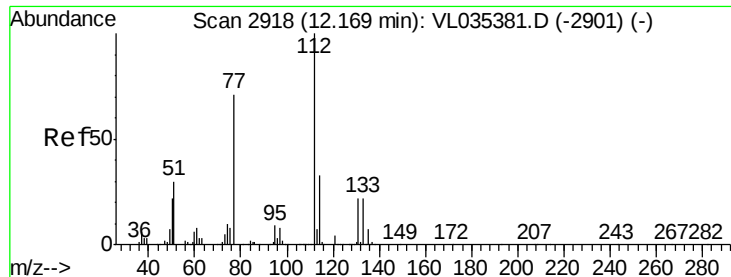
MMDadoda
8/17/2020 5:43:57 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 12.717 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.01 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion:131 Resp: 1961043
Ion Ratio Lower Upper
131 100
133 94.7 76.1 114.1
119 64.1 47.0 70.4





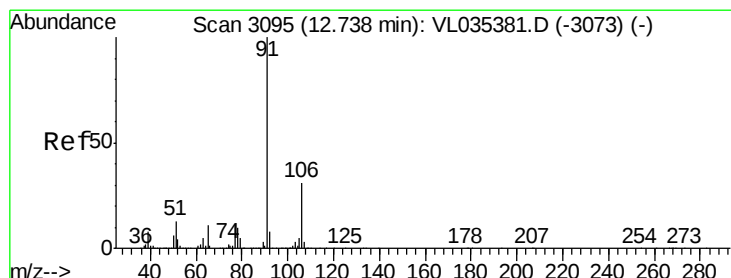
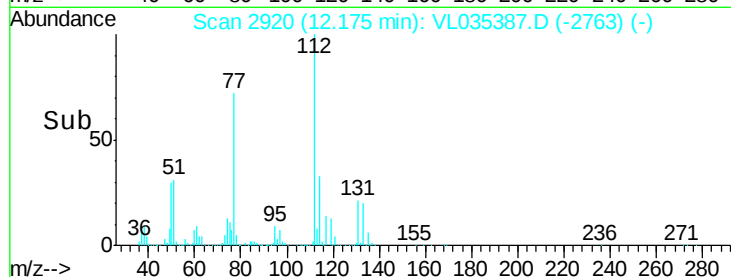
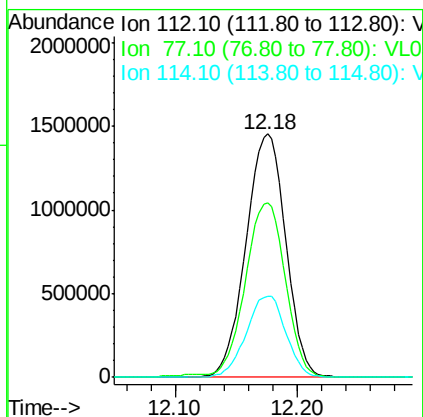
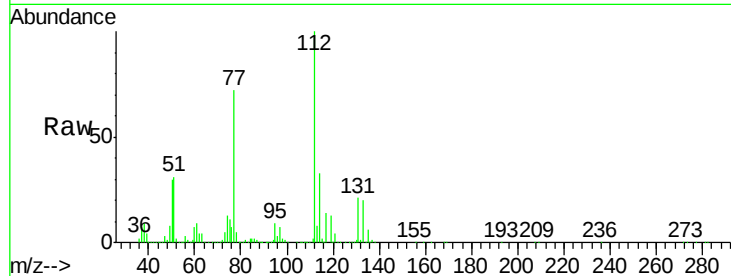
#57
Chlorobenzene
Concen: 13.299 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. 0.01 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.7	57.6	86.4
114	33.3	30.0	36.6

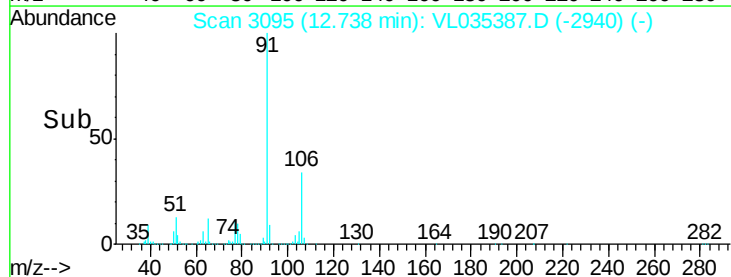
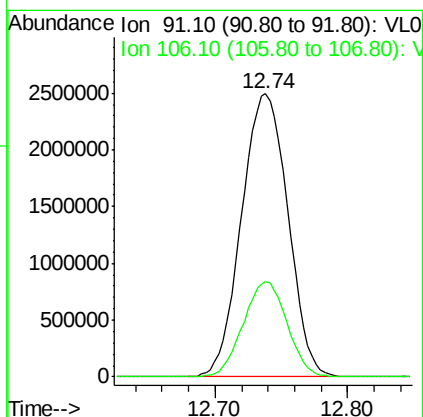
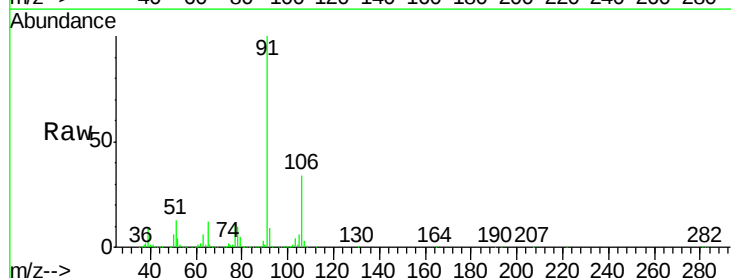
Manual Integrations
APPROVED

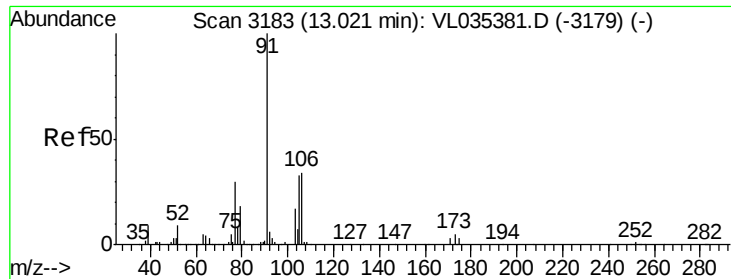
MMDadoda
8/17/2020 5:43:57 PM



#58
Ethyl Benzene
Concen: 17.825 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.5	25.1	37.7





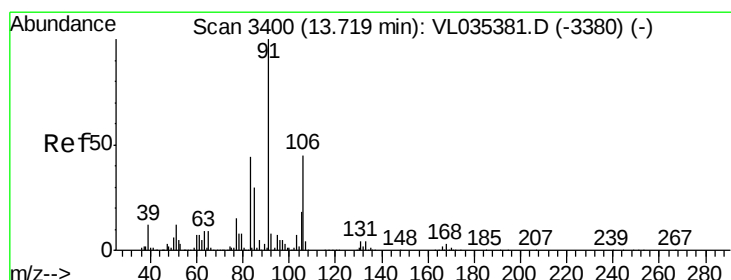
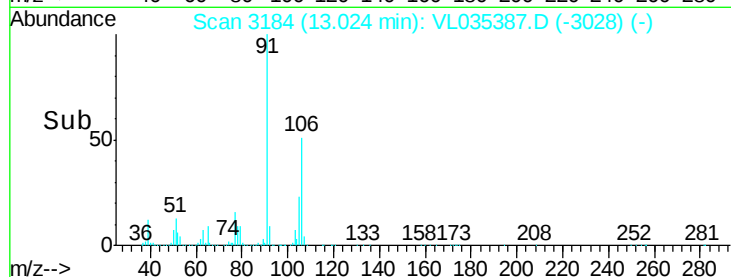
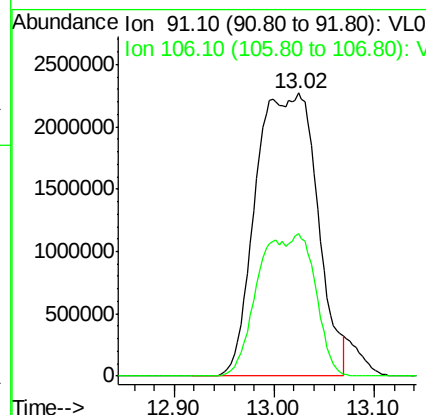
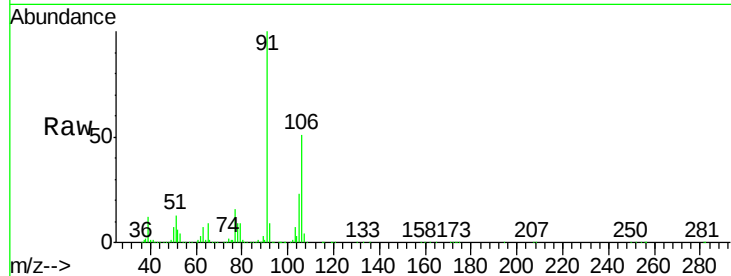
#59
m/p-Xylene
Concen: 30.611 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9689766
Ion Ratio Lower Upper
91 100
106 46.8 36.7 55.1

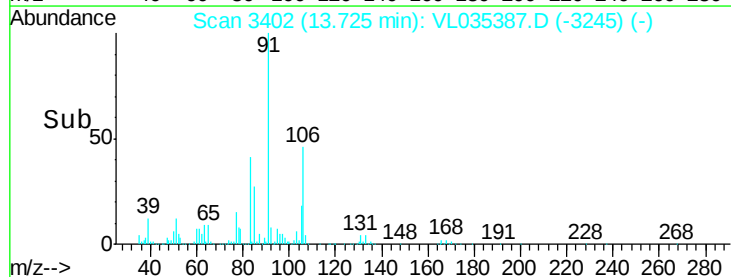
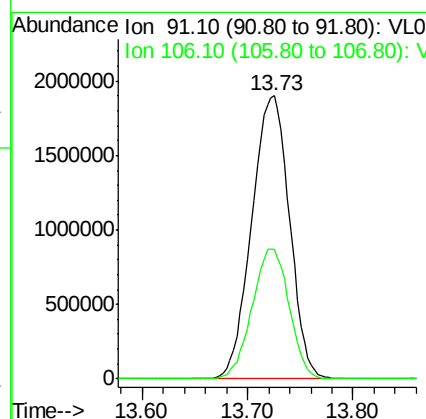
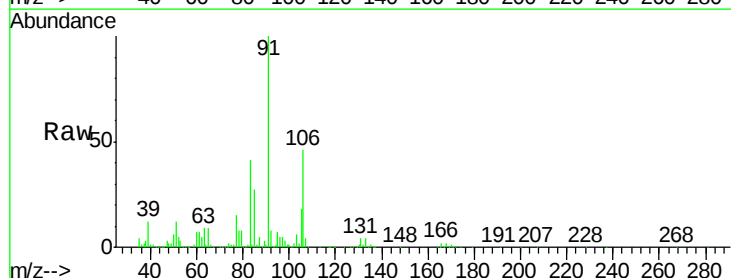
Manual Integrations
APPROVED

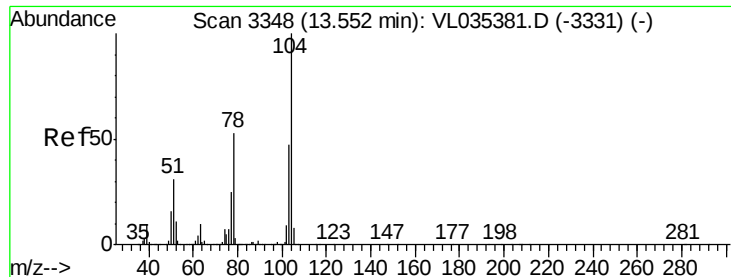
MMDadoda
8/17/2020 5:43:57 PM



#60
o-Xylene
Concen: 15.107 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.01 min
Lab File: VL035387.D
Acq: 12 Aug 2020 15:59

Tgt Ion: 91 Resp: 4745475
Ion Ratio Lower Upper
91 100
106 45.1 22.2 66.6





#61

Stvrene

Concen: 19.863 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3810559

Ion Ratio Lower Upper

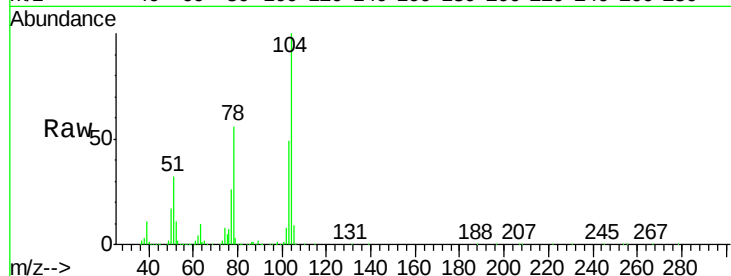
104 100

78 54.5 43.0 64.4

103 48.2 37.9 56.9

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



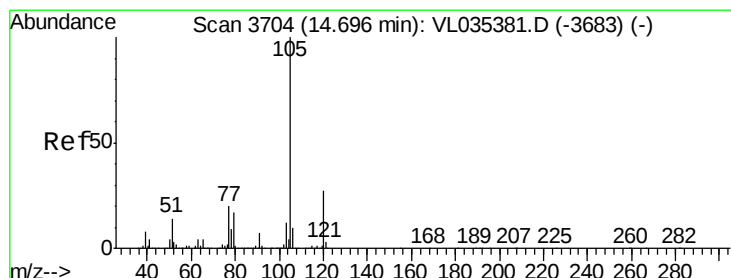
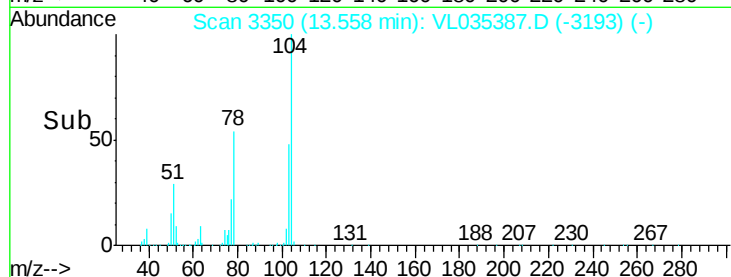
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V

13.56

Time-->



#62

Isopropylbenzene

Concen: 14.912 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035387.D

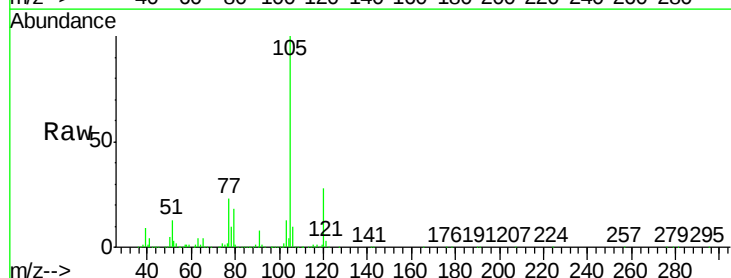
Acq: 12 Aug 2020 15:59

Tgt Ion:105 Resp: 7052754

Ion Ratio Lower Upper

105 100

120 27.2 21.1 31.7

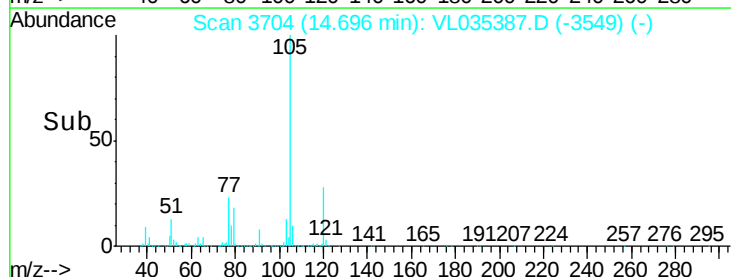


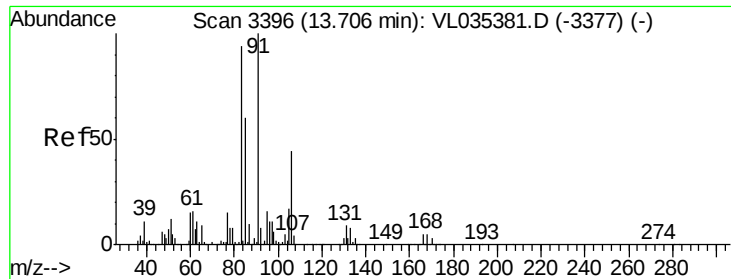
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.70

Time-->





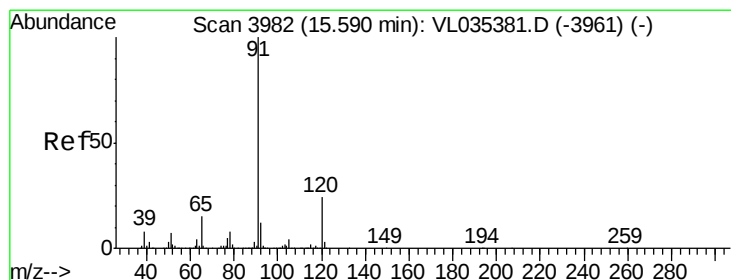
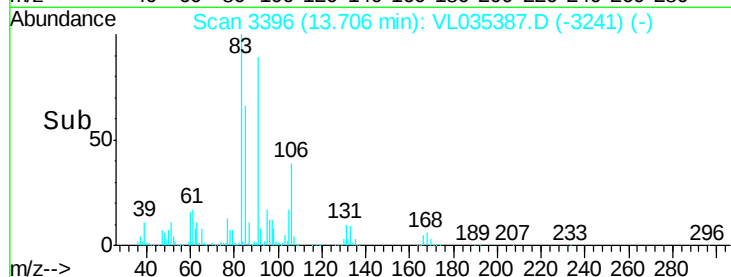
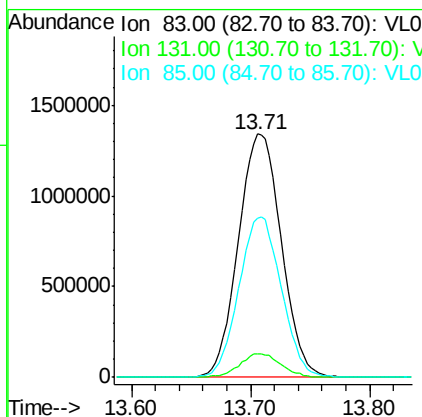
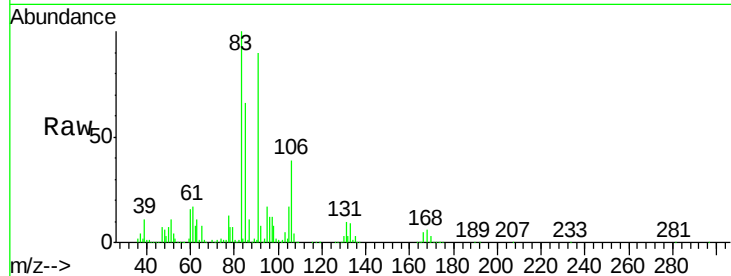
#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.521 ppbv
 RT: 13.71 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 3355283
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.5 13.7
 85 65.2 32.4 97.0

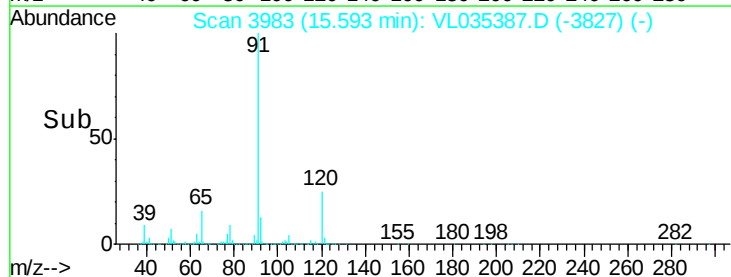
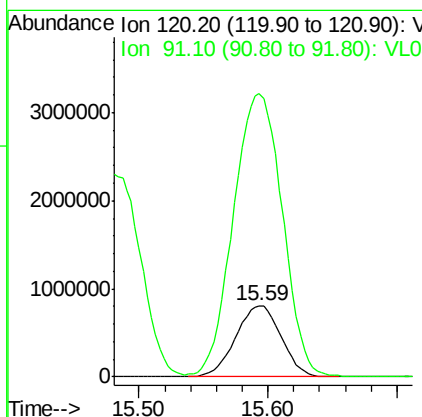
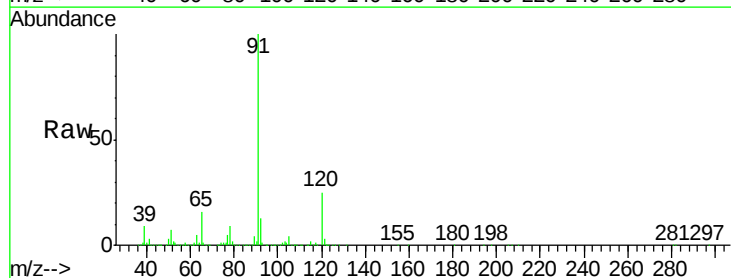
Manual Integrations
 APPROVED

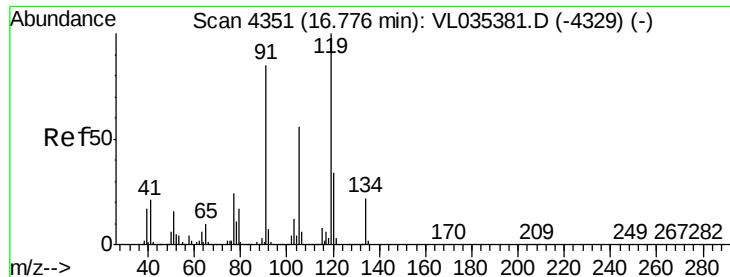
MMDadoda
 8/17/2020 5:43:57 PM



#64
 n-propylbenzene
 Concen: 15.480 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion:120 Resp: 1967637
 Ion Ratio Lower Upper
 120 100
 91 432.7 356.2 534.4





#65

tert-Butylbenzene

Concen: 13.963 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 6047416

Ion Ratio Lower Upper

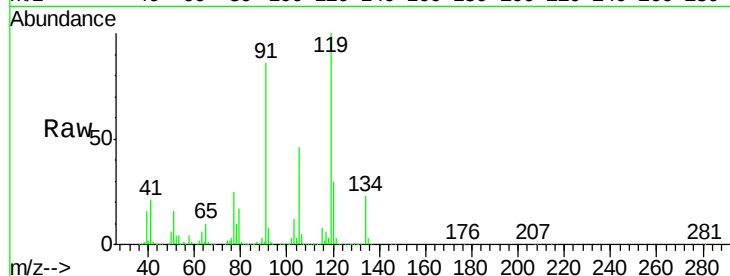
119 100

91 86.7 68.2 102.4

134 20.5 16.2 24.4

Manual Integrations
APPROVED

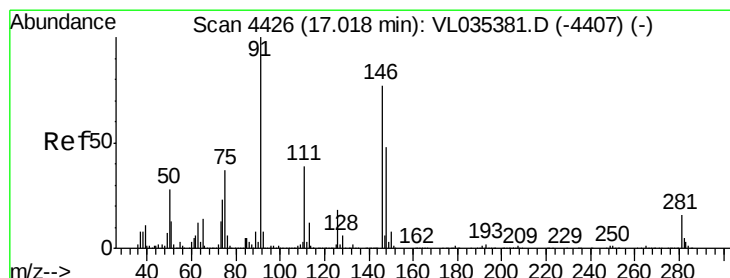
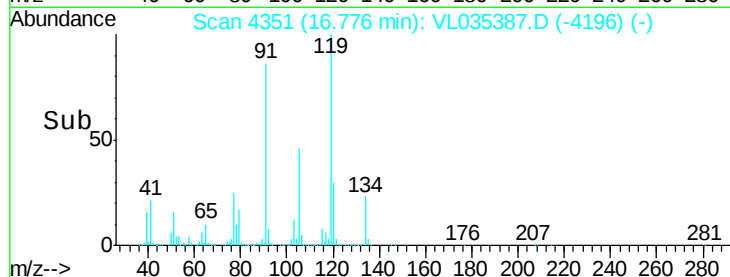
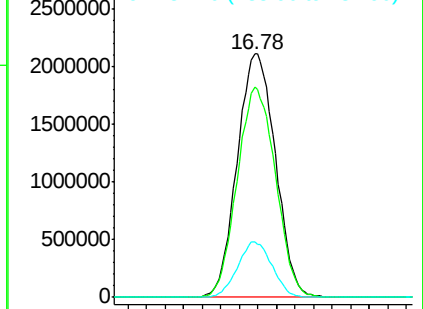
MMDadoda
8/17/2020 5:43:57 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 19.061 ppbv

RT: 17.02 min Scan# 4428

Delta R.T. 0.01 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

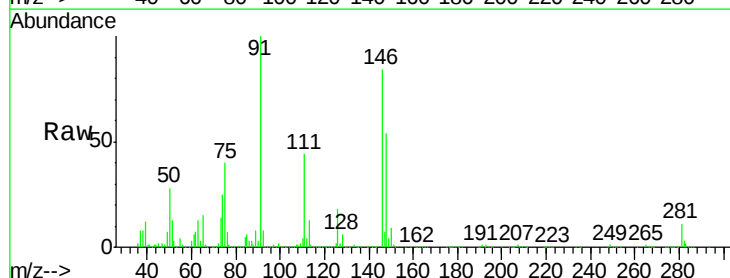
Tgt Ion: 91 Resp: 3267419

Ion Ratio Lower Upper

91 100

126 18.1 14.4 21.6

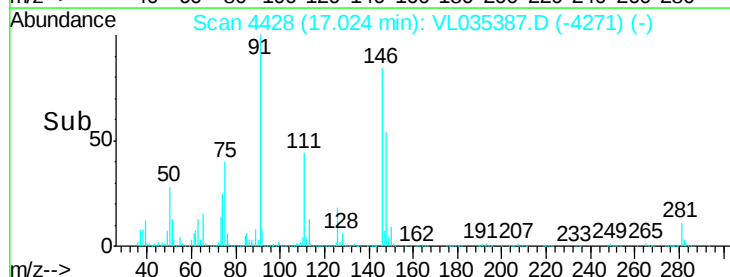
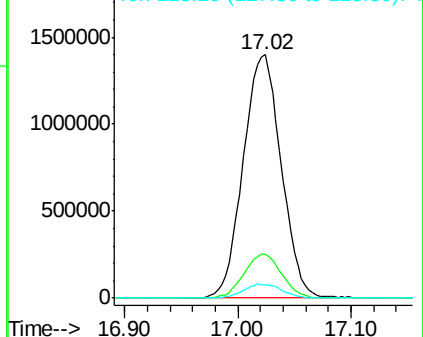
128 5.7 4.6 7.0

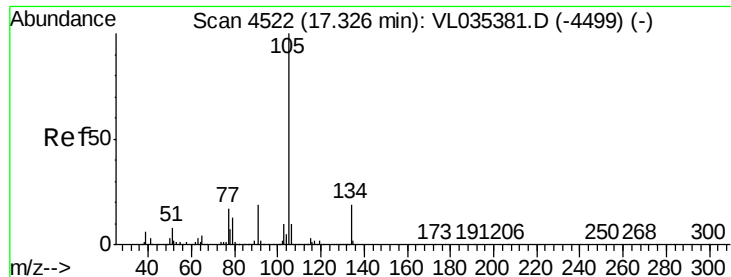


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 13.998 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8575218

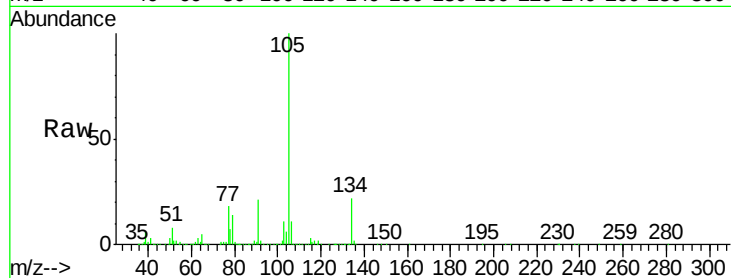
Ion Ratio Lower Upper

105 100

134 19.5 15.0 22.6

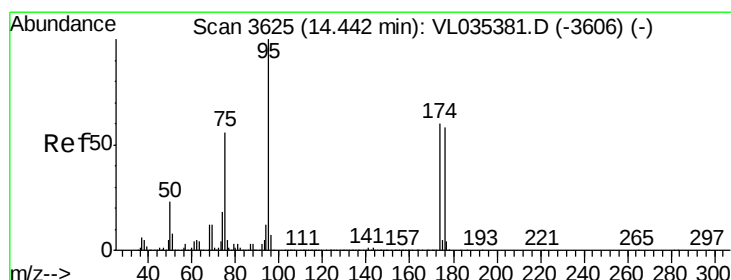
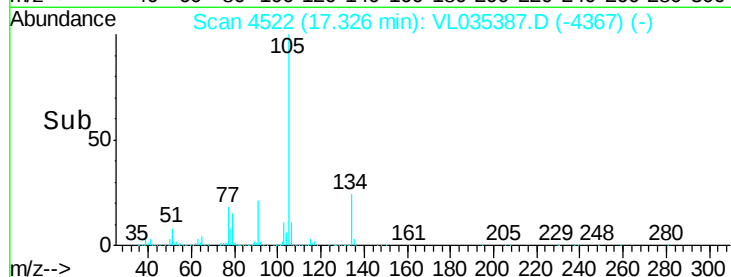
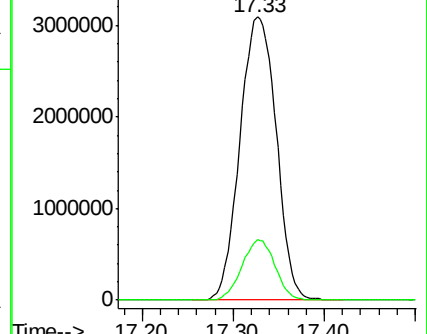
Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 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: 9.658 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

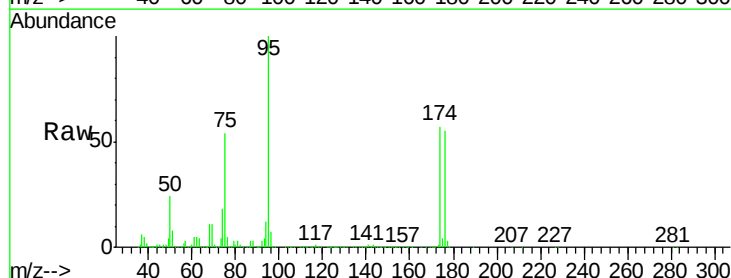
Tgt Ion: 95 Resp: 2631172

Ion Ratio Lower Upper

95 100

174 58.1 48.2 72.2

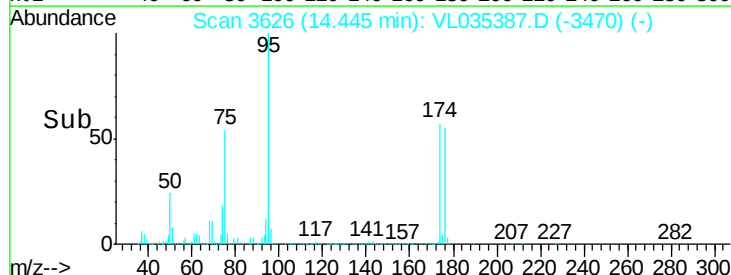
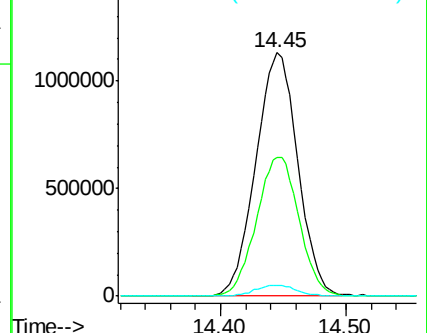
175 4.4 3.7 5.5

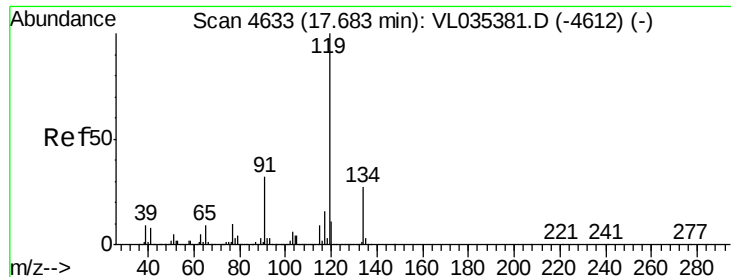


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





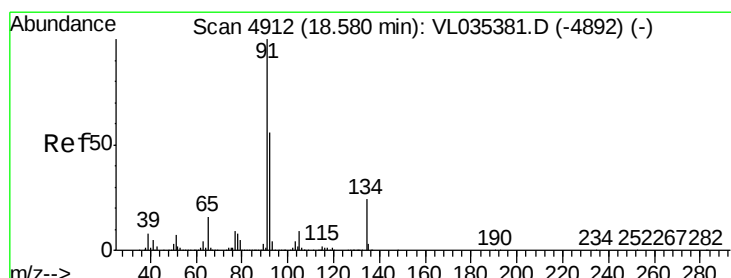
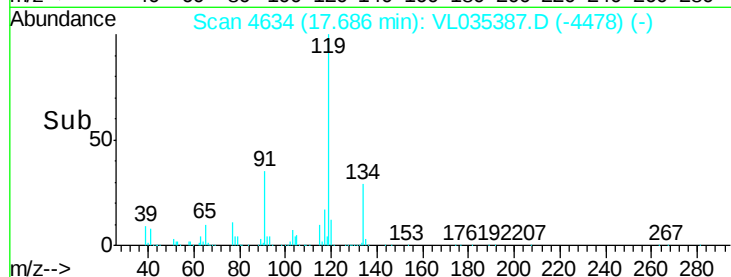
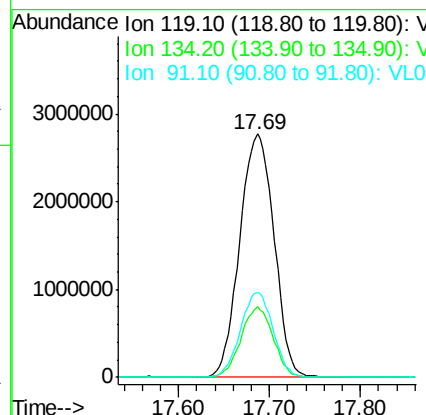
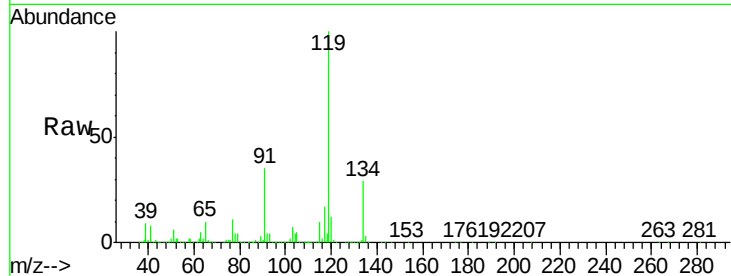
#69
 p-Isopropyltoluene
 Concen: 14.518 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.2	20.9	31.3
91	33.3	25.3	37.9

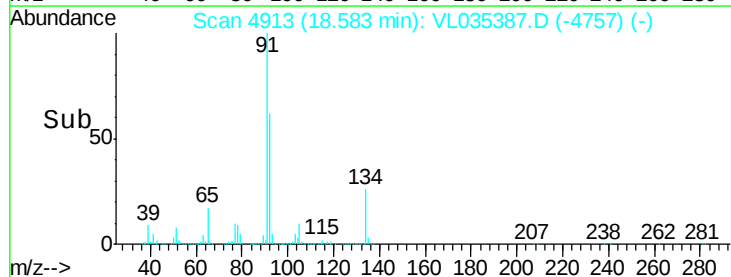
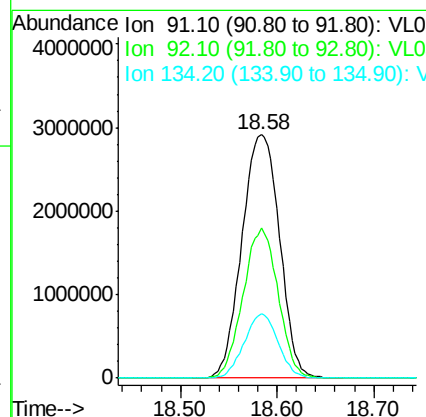
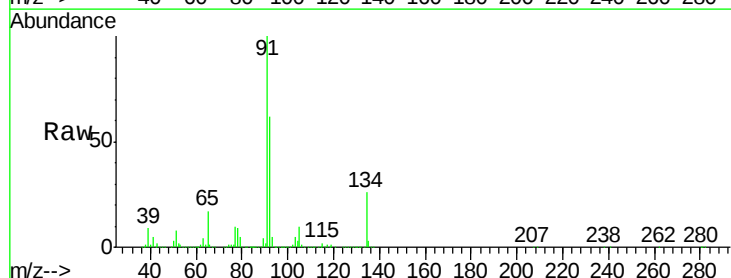
Manual Integrations
 APPROVED

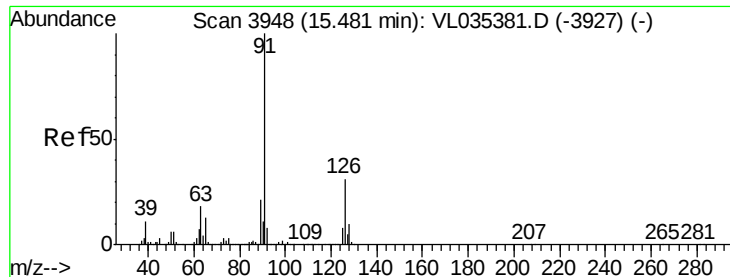
MMDadoda
 8/17/2020 5:43:57 PM



#70
 n-Butylbenzene
 Concen: 14.763 ppbv
 RT: 18.58 min Scan# 4913
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.4	45.0	67.6
134	23.8	18.8	28.2





#71

2-Chlorotoluene

Concen: 16.833 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5832148

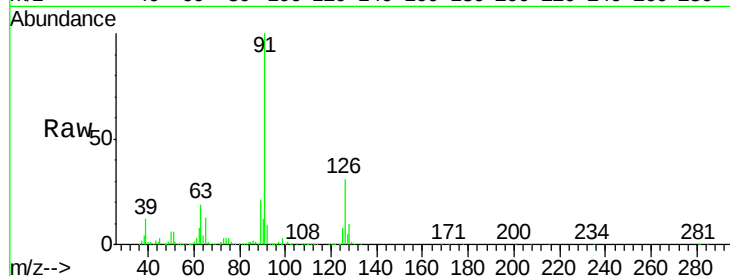
Ion Ratio Lower Upper

91 100

126 30.6 12.1 48.3

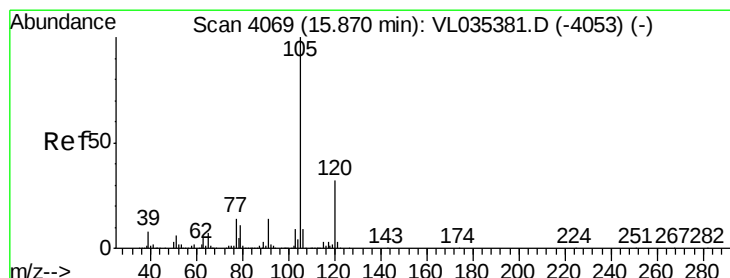
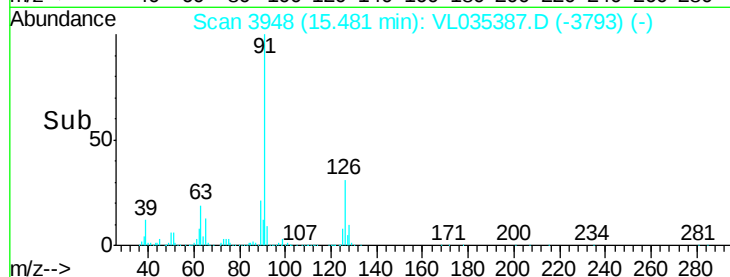
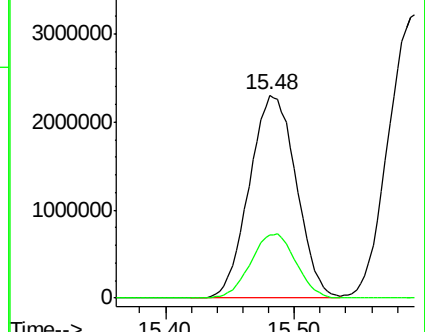
Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 16.484 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Tgt Ion:105 Resp: 5903756

Ion Ratio Lower Upper

105 100

120 30.0 24.0 36.0

91 13.6 10.4 15.6

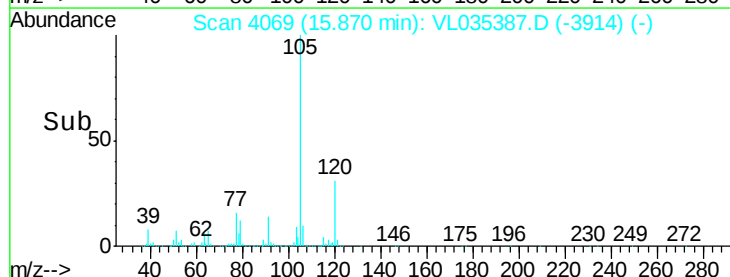
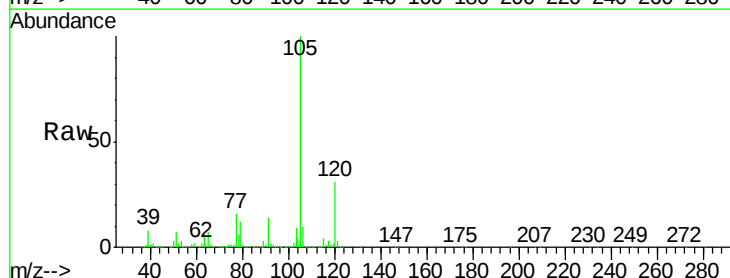
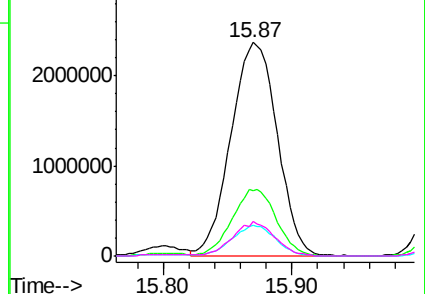
77 14.7 11.3 16.9

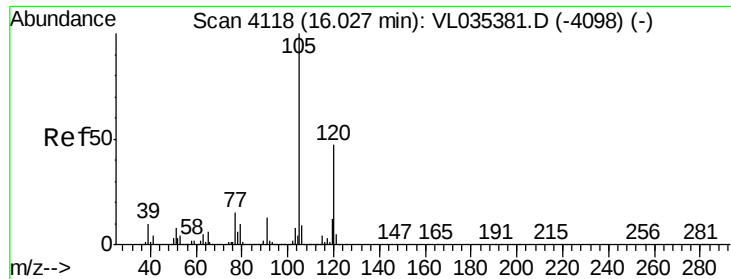
Abundance Ion 105.10 (104.80 to 105.80): V

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





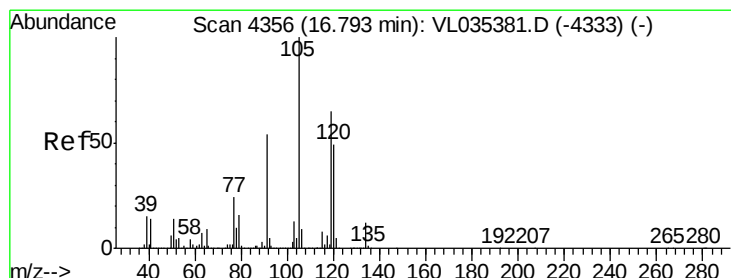
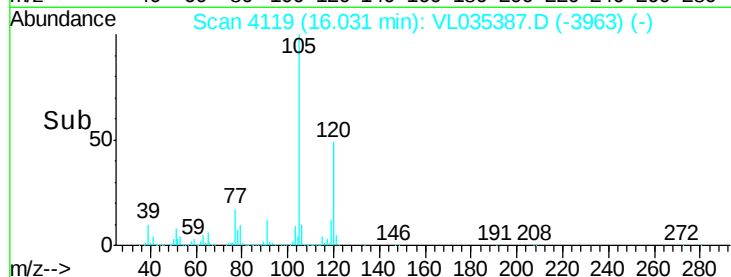
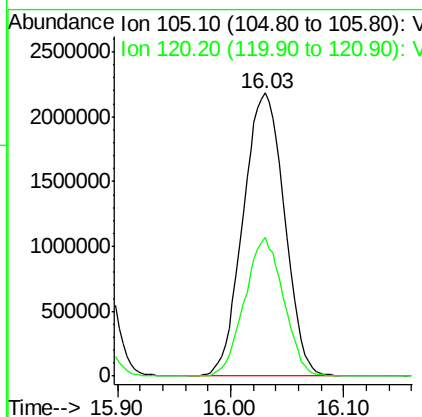
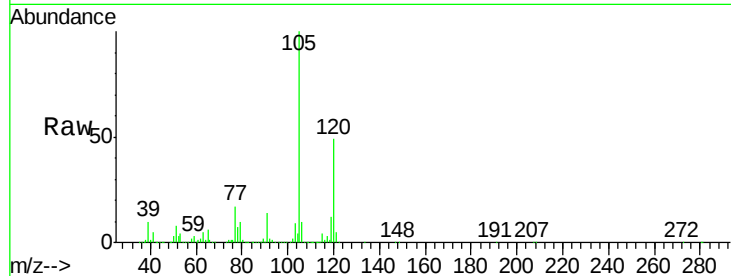
#73
 1,3,5-Trimethylbenzene
 Concen: 16.077 ppbv
 RT: 16.03 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 5525084
 Ion Ratio Lower Upper
 105 100
 120 48.9 37.4 56.0

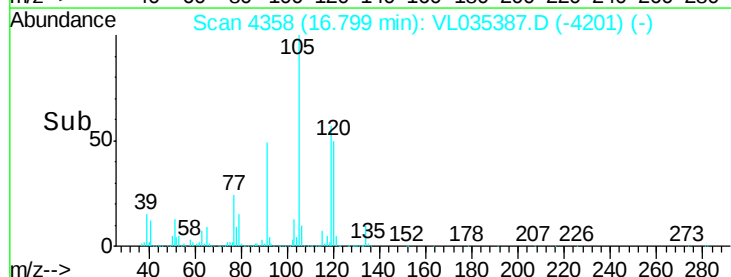
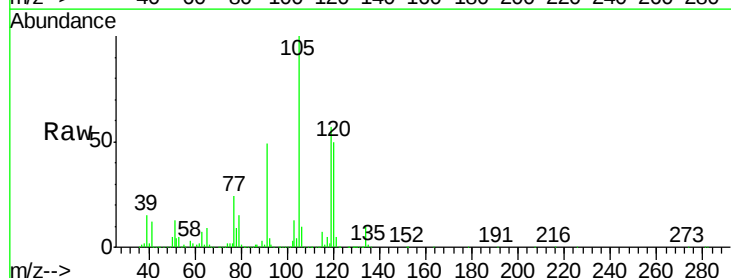
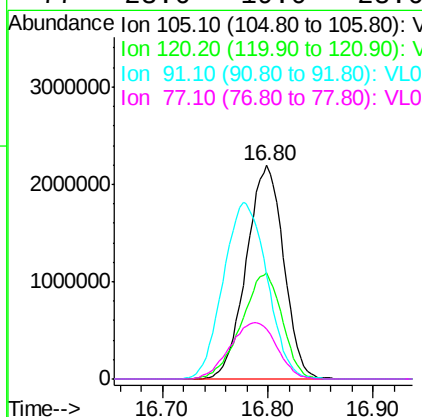
Manual Integrations
 APPROVED

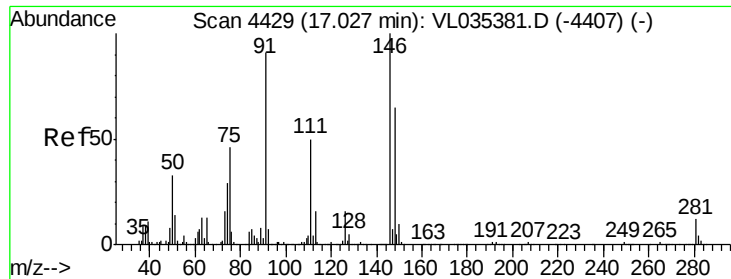
MMDadoda
 8/17/2020 5:43:57 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 13.755 ppbv
 RT: 16.80 min Scan# 4358
 Delta R.T. 0.01 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion:105 Resp: 5402527
 Ion Ratio Lower Upper
 105 100
 120 49.7 39.1 58.7
 91 48.6 43.7 65.5
 77 23.6 19.0 28.6





#75

1,3-Dichlorobenzene

Concen: 12.189 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3131828

Ion Ratio Lower Upper

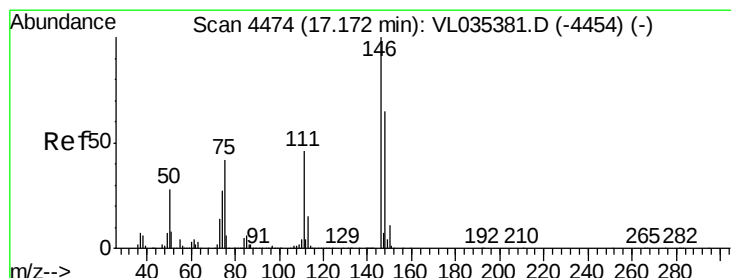
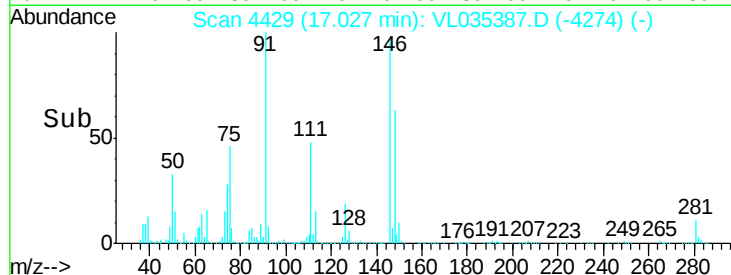
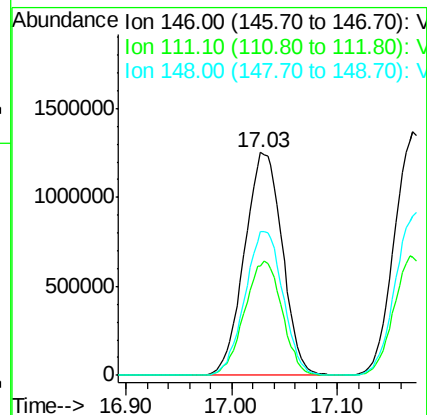
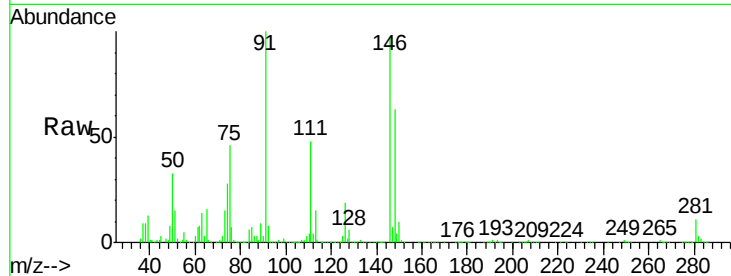
146 100

111 50.8 25.0 75.0

148 64.9 32.6 97.7

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



#76

1,4-Dichlorobenzene

Concen: 13.764 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

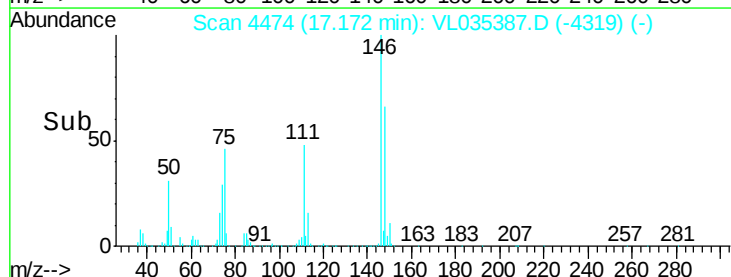
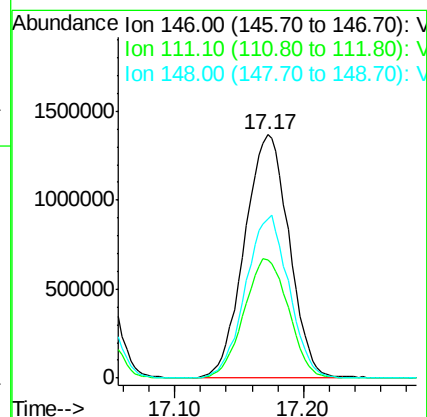
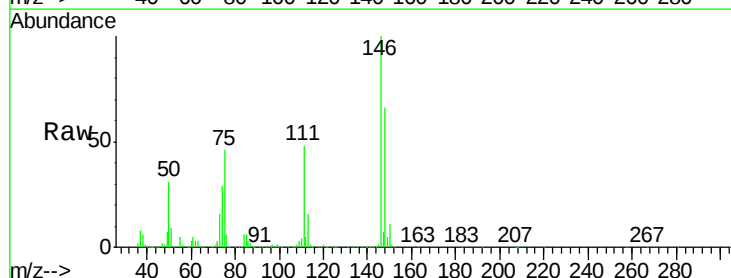
Tgt Ion:146 Resp: 3275162

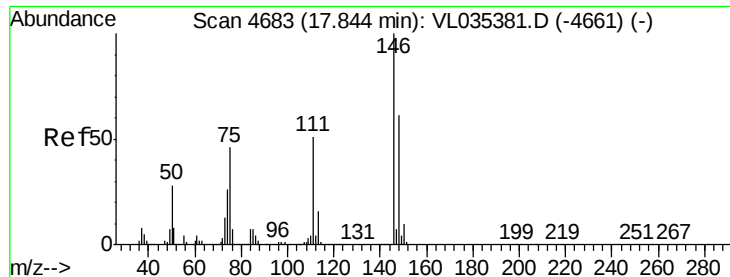
Ion Ratio Lower Upper

146 100

111 49.3 24.0 72.0

148 65.1 32.5 97.5





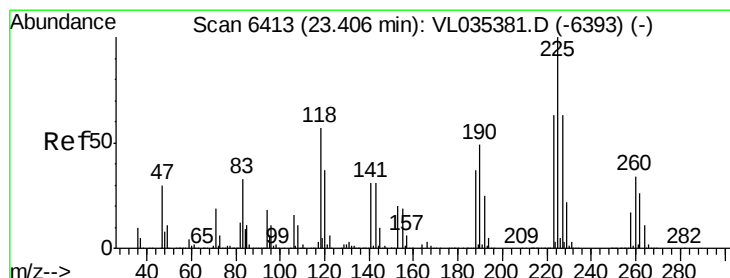
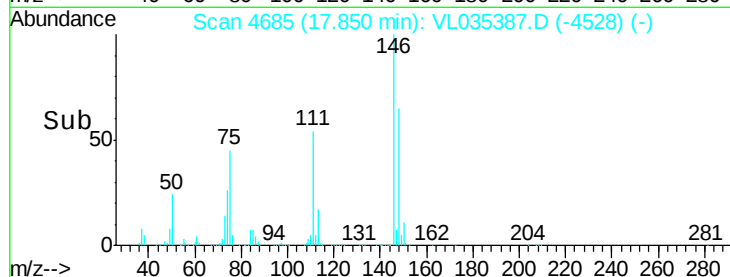
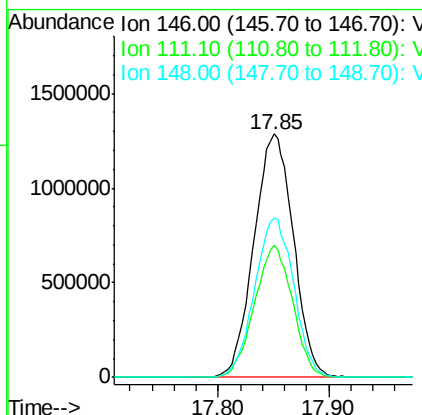
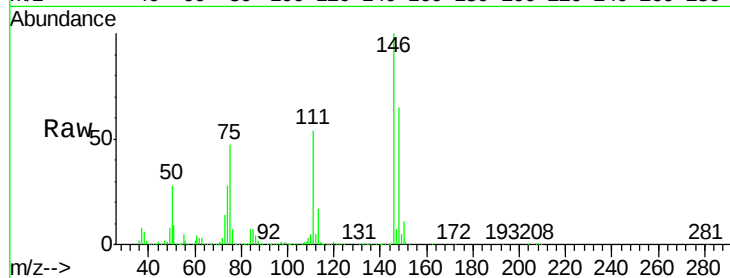
#77
 1,2-Dichlorobenzene
 Concen: 13.429 ppbv
 RT: 17.85 min Scan# 4685
 Delta R.T. 0.01 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.4	25.9	77.8
148	65.1	32.1	96.3

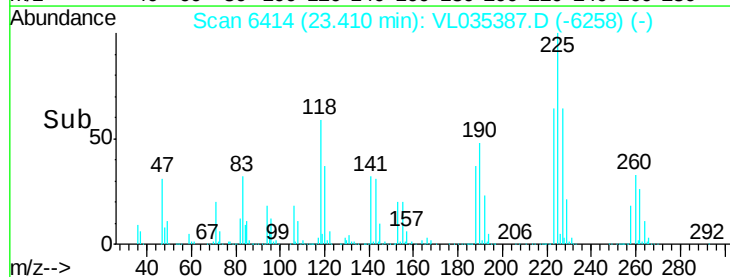
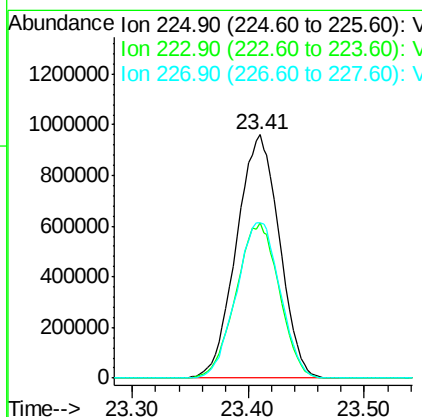
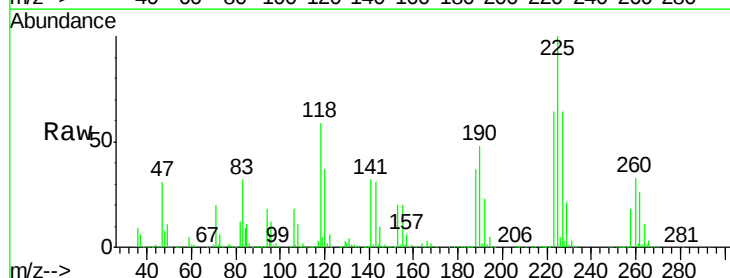
Manual Integrations
 APPROVED

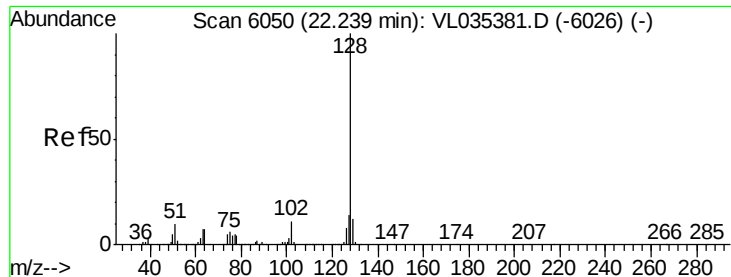
MMDadoda
 8/17/2020 5:43:57 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.227 ppbv
 RT: 23.41 min Scan# 6414
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	51.0	76.6
227	65.2	51.0	76.6





#79

Naphthalene

Concen: 23.239 ppbv

RT: 22.24 min Scan# 6050

Delta R.T. -0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 7020557

Ion Ratio Lower Upper

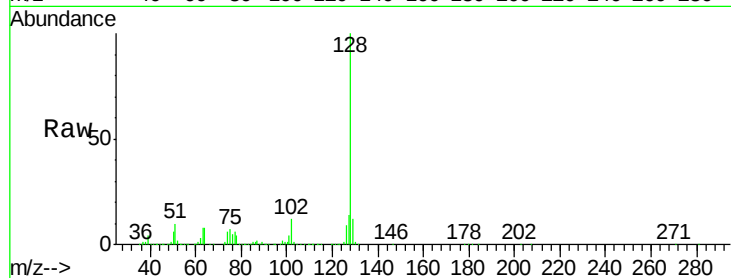
128 100

127 14.5 11.0 16.4

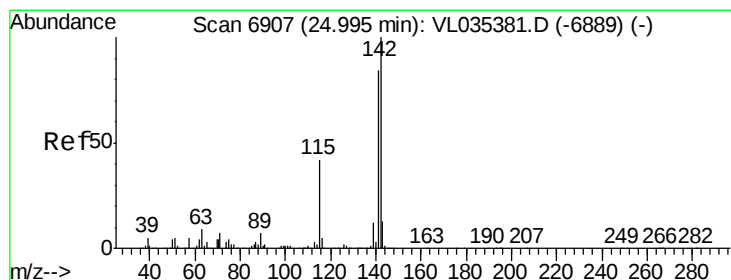
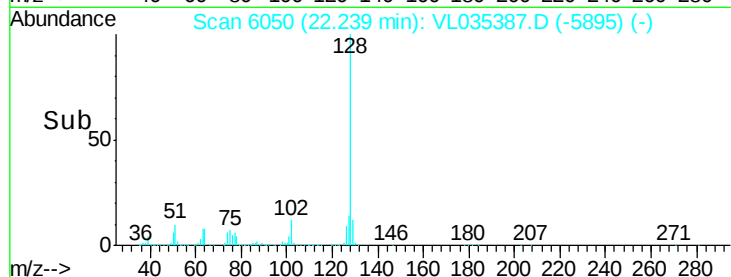
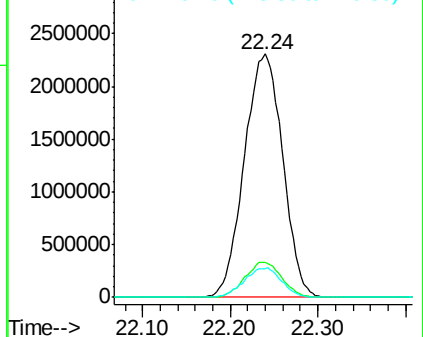
129 11.9 9.2 13.8

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:43:57 PM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 50.541 ppbv

RT: 25.00 min Scan# 6908

Delta R.T. 0.00 min

Lab File: VL035387.D

Acq: 12 Aug 2020 15:59

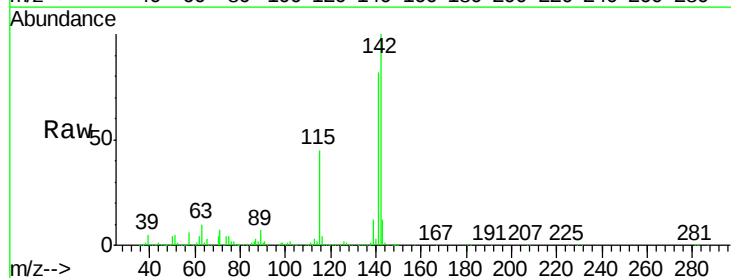
Tgt Ion:142 Resp: 3473250

Ion Ratio Lower Upper

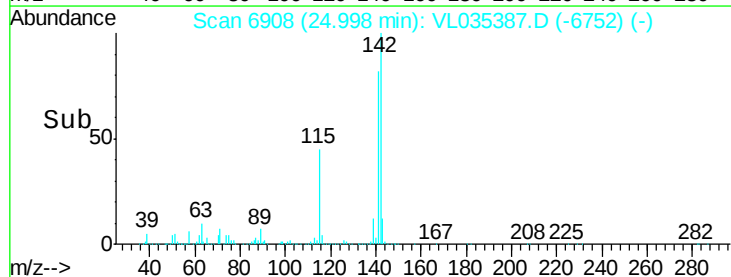
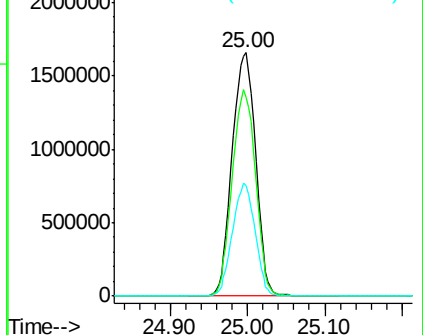
142 100

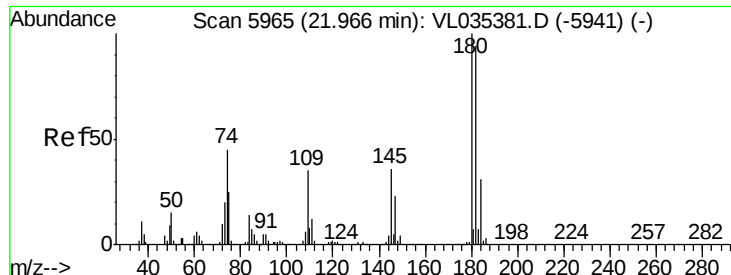
141 84.3 67.7 101.5

115 44.5 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 17.168 ppbv
 RT: 21.97 min Scan# 5966
 Delta R.T. 0.00 min
 Lab File: VL035387.D
 Acq: 12 Aug 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.6	116.4
184	31.2	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:57 PM

