

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033700.D
 Acq On : 17 May 2019 1:59
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:54 PM

Quant Time: May 17 07:50:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1051280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2501234	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2449943m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1983802	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1901781	7.914	ppbv	100
3) Chlorodifluoromethane	3.01	51	1140987	7.564	ppbv	100
4) Chloromethane	3.17	50	660982	8.423	ppbv	100
5) Vinyl Chloride	3.29	62	648170	8.482	ppbv	100
6) Bromomethane	3.51	94	423232	8.700	ppbv	100
7) Chloroethane	3.60	64	241364	8.681	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1670183	8.297	ppbv	100
9) Propene	3.03	41	509901	8.831	ppbv	100
10) Heptane	8.24	43	1424737	9.957	ppbv	100
11) Trichlorofluoromethane	4.00	101	2088194	9.027	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1443182	9.250	ppbv	100
13) Ethanol	3.64	45	130589	7.426	ppbv	100
14) Bromoethene	3.78	108	526957	8.750	ppbv	100
15) Acetone	3.90	43	1321766	8.398	ppbv	100
16) 1,3-Butadiene	3.36	39	565787	8.566	ppbv	100
17) tert-Butyl alcohol	4.35	59	1227478	10.136	ppbv	100
18) 1,1-Dichloroethene	4.35	96	630599	9.385	ppbv	100
19) Isopropyl Alcohol	4.02	45	969250	9.863	ppbv	100
20) Methylene Chloride	4.41	84	520218	8.742	ppbv	100
21) Allyl Chloride	4.48	41	940922	9.842	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	609227	9.142	ppbv	100
23) Vinyl Acetate	5.15	43	1976967	9.744	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1365989	8.912	ppbv	100
25) Ethyl Acetate	5.76	43	2471695	9.642	ppbv	100
26) Hexane	5.78	57	1093223	9.917	ppbv	100
27) Carbon Disulfide	4.62	76	1608504	10.629	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1794779	9.747	ppbv	100
29) Chloroform	5.85	83	1856904	9.391	ppbv	100
30) Cyclohexane	7.25	84	948099	10.302	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1058458	9.769	ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	1959726	9.630	ppbv	100
34) 2-Butanone	5.33	43	1558459	9.711	ppbv	100
35) Carbon Tetrachloride	7.13	117	2061441	10.016	ppbv	100
36) Benzene	7.00	78	2333922	10.327	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1441332	9.149	ppbv	100
38) Trichloroethene	7.96	130	912645	11.068	ppbv	100
39) 1,2-Dichloropropane	7.73	63	862673	10.241	ppbv	100
40) 1,4-Dioxane	7.95	88	366322	10.748	ppbv #	100
41) Tetrahydrofuran	6.15	42	934508	11.126	ppbv	100
42) Bromodichloromethane	7.92	83	2040565	10.078	ppbv	100
43) Methyl Methacrylate	8.13	69	915319	10.793	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033700.D
 Acq On : 17 May 2019 1:59
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

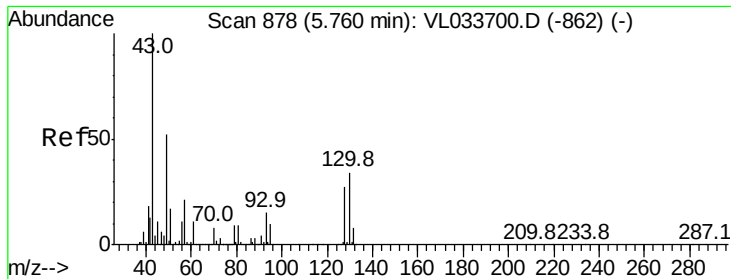
Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:54 PM

Quant Time: May 17 07:50:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3899977	10.108	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1281681	12.234	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1461909	11.226	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	965568	9.982	ppbv	100
48) Dibromochloromethane	10.45	129	1810795	11.015	ppbv	100
49) Bromoform	13.20	173	1514704	10.770	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2538903	10.434	ppbv	100
51) 2-Hexanone	10.27	43	2096794	11.067	ppbv	100
52) Tetrachloroethene	11.37	164	892540	11.134	ppbv	100
53) Toluene	9.95	91	2741546	11.194	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1546099	10.584	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1134286	9.956	ppbv	95
57) Chlorobenzene	12.30	112	1983907	9.767	ppbv	100
58) Ethyl Benzene	12.86	91	3569532	11.063	ppbv	100
59) m/p-Xylene	13.15	91	5966724m	20.989	ppbv	
60) o-Xylene	13.85	91	2979946	10.386	ppbv	100
61) Styrene	13.68	104	2236579	11.678	ppbv	100
62) Isopropylbenzene	14.82	105	4005063	10.203	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2042256	9.812	ppbv	100
64) n-propylbenzene	15.72	120	1043780	10.310	ppbv	100
65) tert-Butylbenzene	16.91	119	3703037	10.287	ppbv	100
66) Benzyl Chloride	17.15	91	2062995	12.520	ppbv	100
67) sec-Butylbenzene	17.46	105	5140743	10.259	ppbv	100
69) p-Isopropyltoluene	17.82	119	4367924	10.568	ppbv	100
70) n-Butylbenzene	18.71	91	4577977	10.481	ppbv	100
71) 2-Chlorotoluene	15.61	91	3049177	10.526	ppbv	100
72) 4-Ethyltoluene	16.00	105	3551992	10.543	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3352990	10.306	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3571952	9.849	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	2082590	9.540	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2075174	10.017	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2011834	9.928	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1380773	8.593	ppbv	100
79) Naphthalene	22.41	128	3683380	11.115	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1639755	12.961	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1995008	10.352	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1051280

Ion Ratio Lower Upper

49 100

128 50.4 25.2 75.6

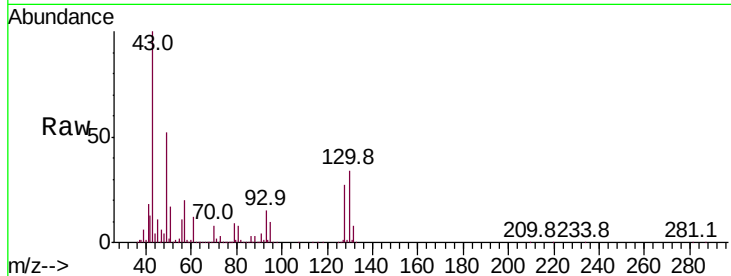
130 65.1 32.5 97.5

Manual Integrations

APPROVED

MMDadoda

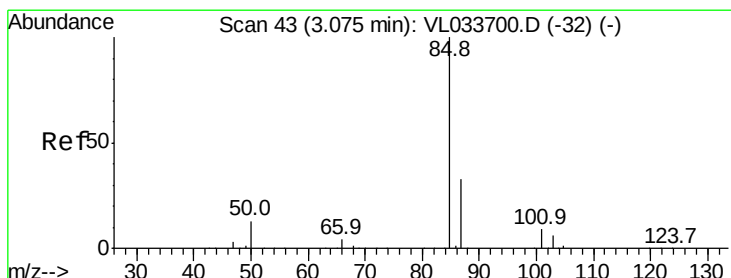
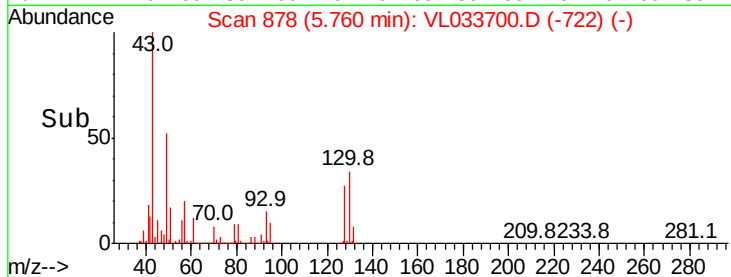
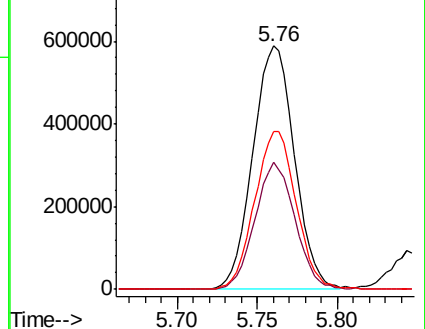
5/20/2019 12:04:54 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.914 ppbv

RT: 3.07 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033700.D

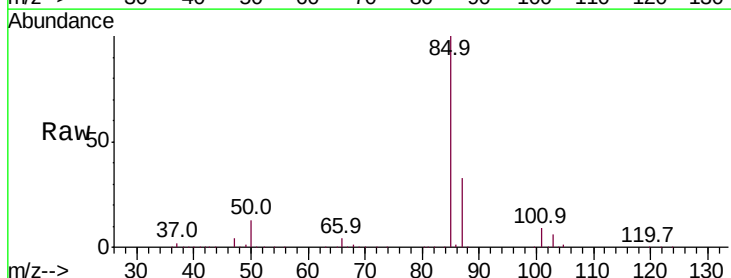
Acq: 17 May 2019 1:59

Tgt Ion: 85 Resp: 1901781

Ion Ratio Lower Upper

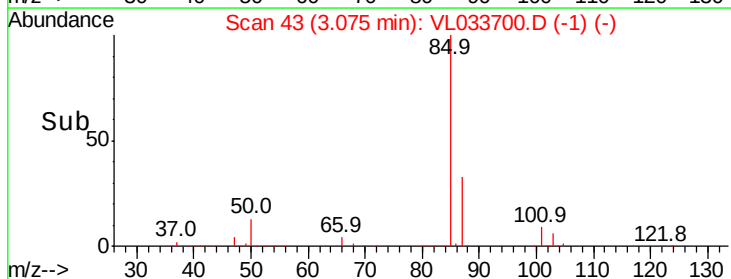
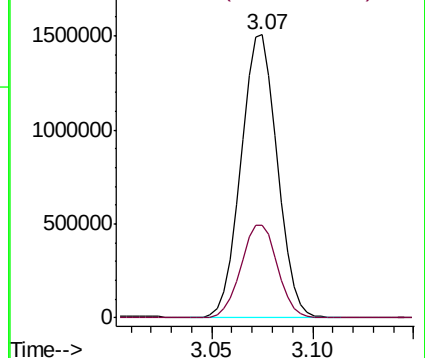
85 100

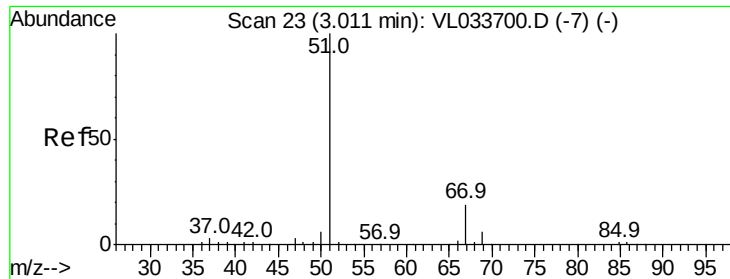
87 32.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





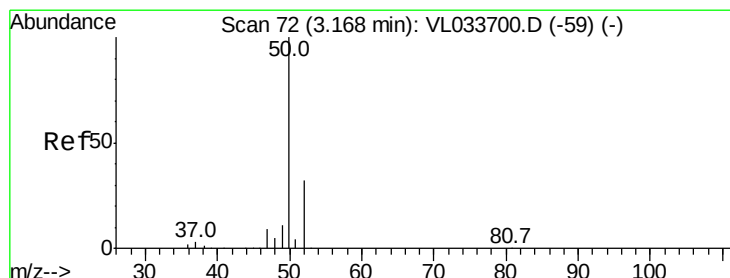
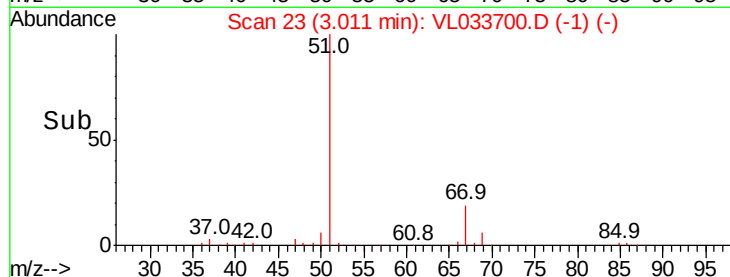
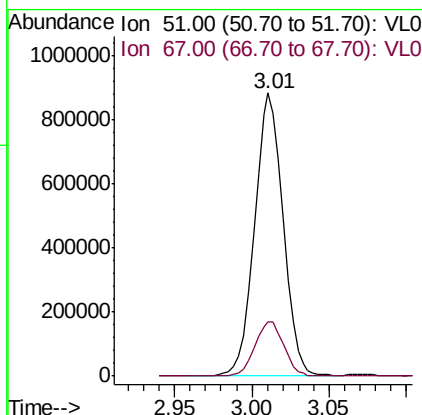
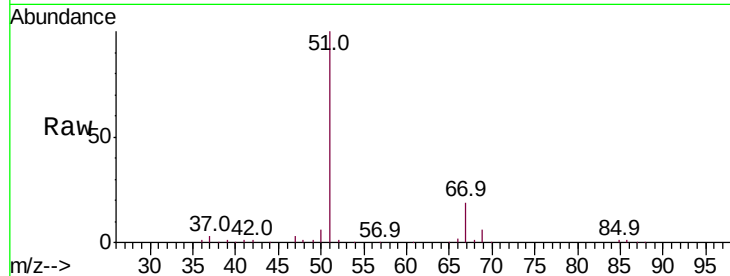
#3
Chlorodifluoromethane
Concen: 7.564 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 51 Resp: 1140987
Ion Ratio Lower Upper
51 100
67 19.5 15.6 23.4

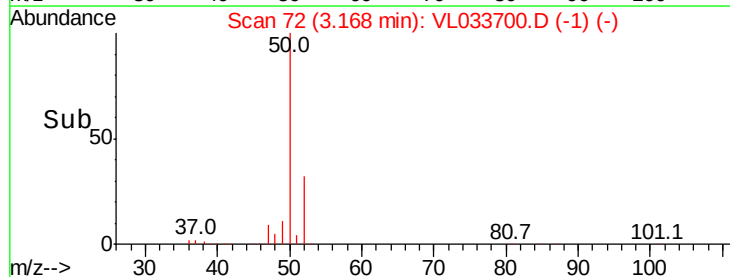
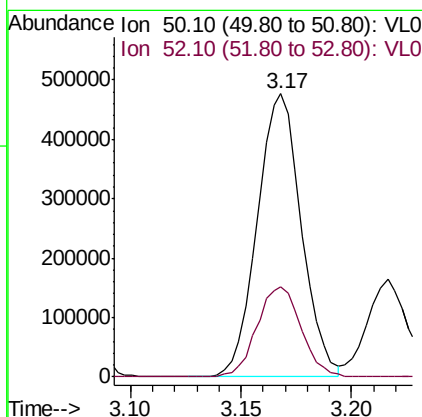
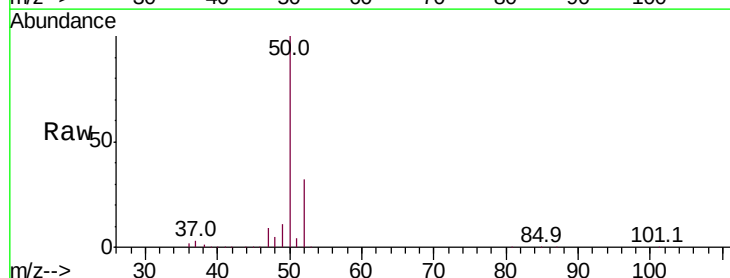
Manual Integrations
APPROVED

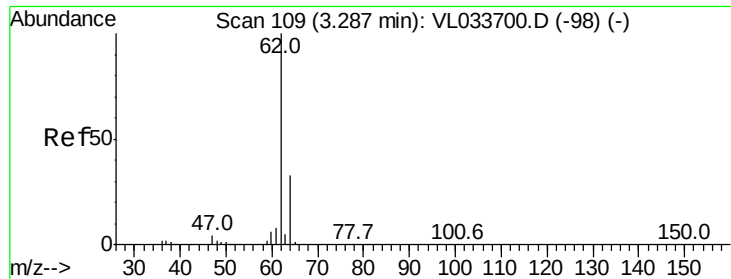
MMDadoda
5/20/2019 12:04:54 PM



#4
Chloromethane
Concen: 8.423 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 50 Resp: 660982
Ion Ratio Lower Upper
50 100
52 32.1 25.7 38.5





#5

Vinyl Chloride

Concen: 8.482 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion: 62 Resp: 648170

Ion Ratio Lower Upper

62 100

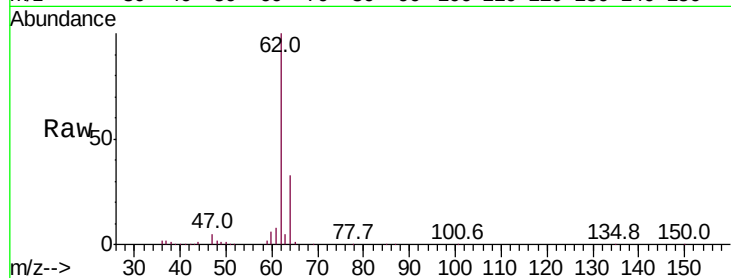
64 33.0 26.4 39.6

Manual Integrations

APPROVED

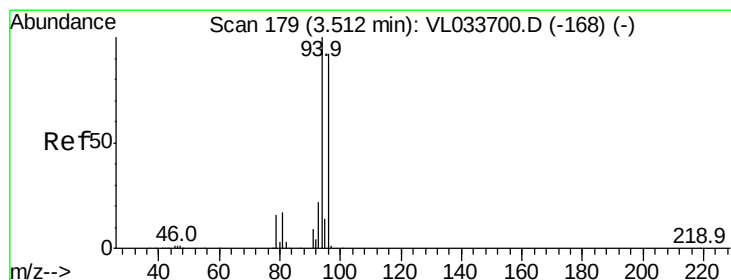
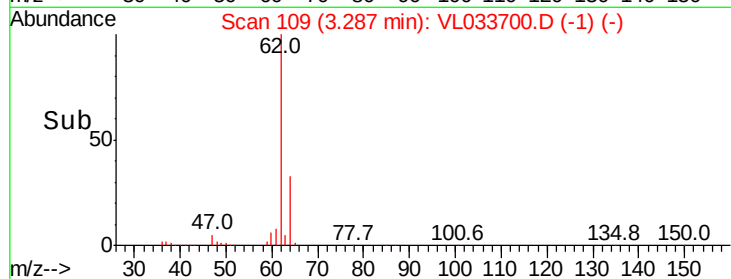
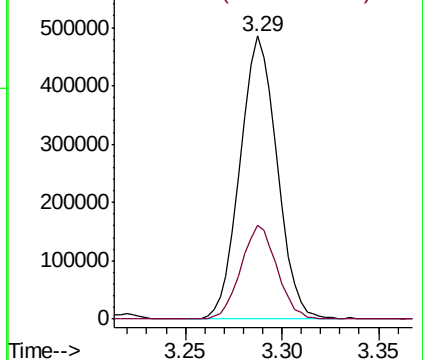
MMDadoda

5/20/2019 12:04:54 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.700 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033700.D

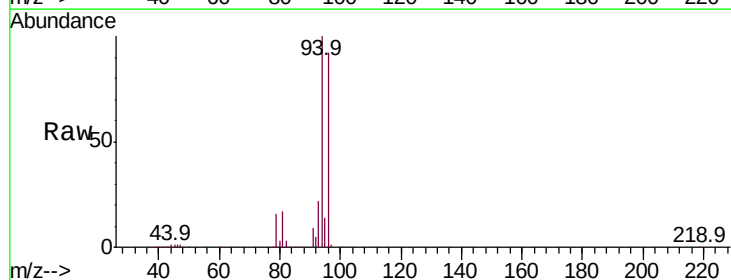
Acq: 17 May 2019 1:59

Tgt Ion: 94 Resp: 423232

Ion Ratio Lower Upper

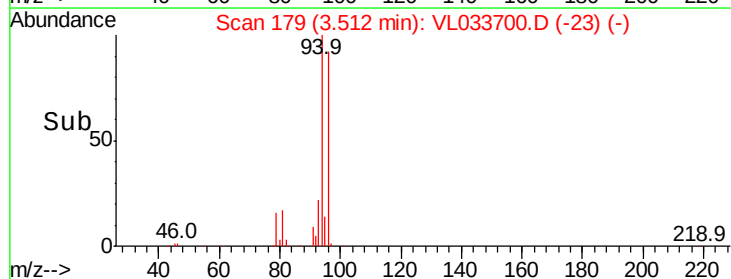
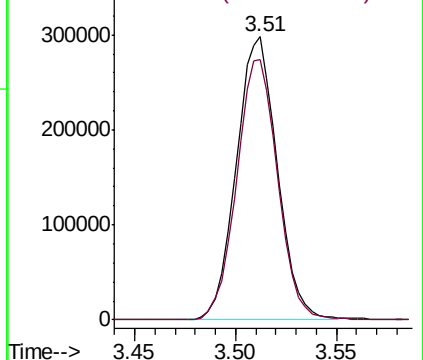
94 100

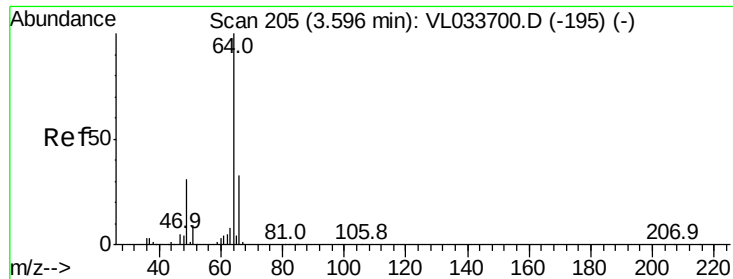
96 92.0 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.681 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 241364

Ion Ratio Lower Upper

64 100

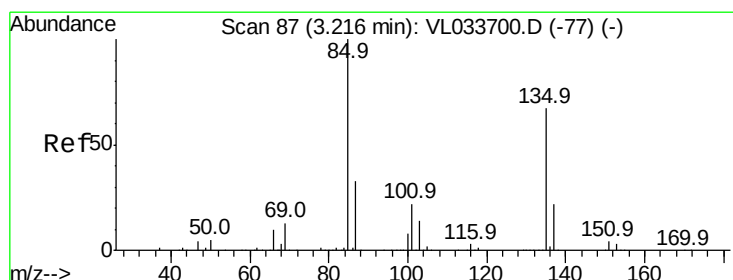
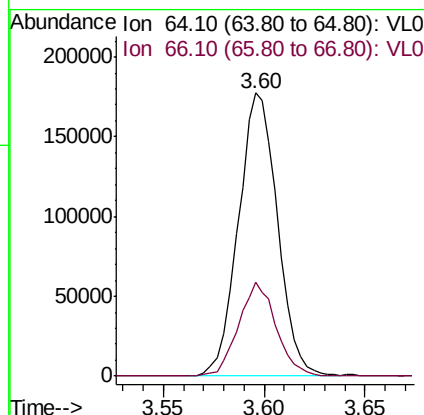
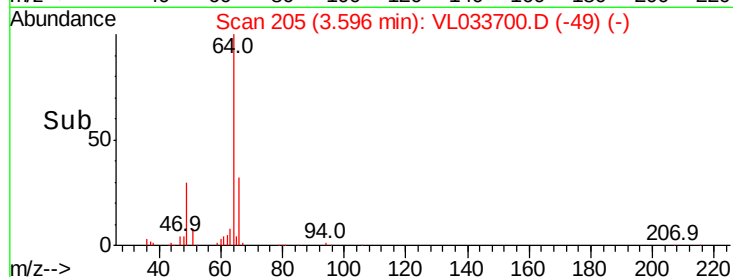
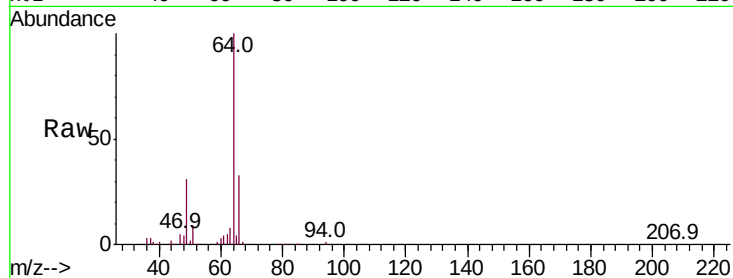
66 33.3 26.6 40.0

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#8

Dichlorotetrafluoroethane

Concen: 8.297 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033700.D

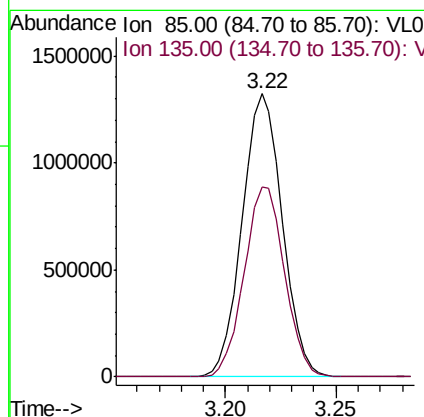
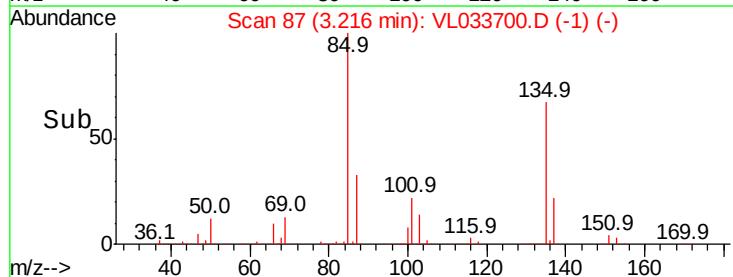
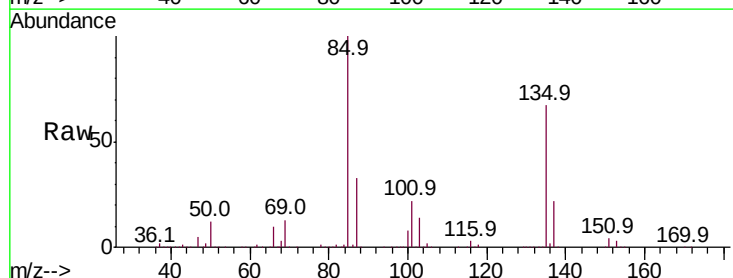
Acq: 17 May 2019 1:59

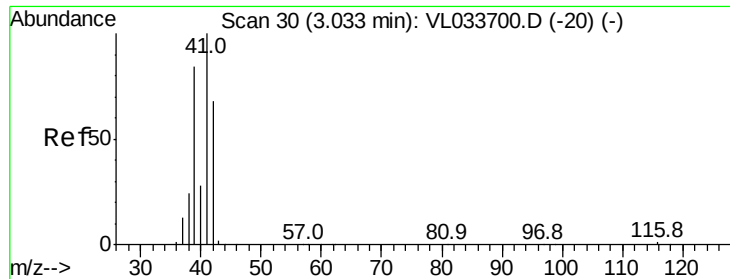
Tgt Ion: 85 Resp: 1670183

Ion Ratio Lower Upper

85 100

135 68.1 54.5 81.7





#9

Propene

Concen: 8.831 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 509901

Ion Ratio Lower Upper

41 100

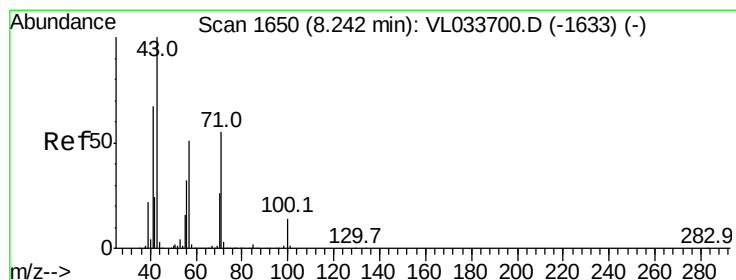
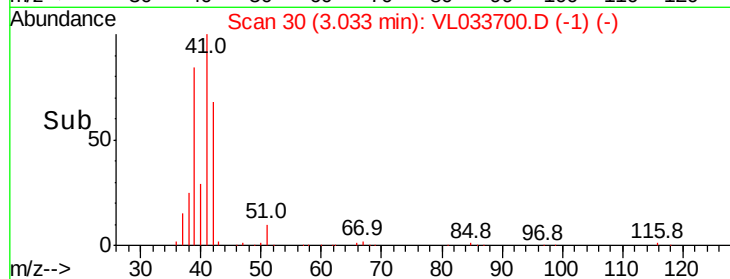
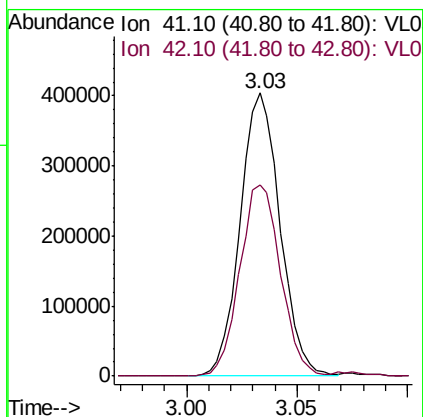
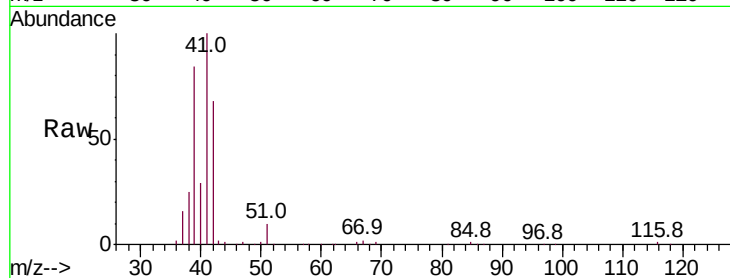
42 70.1 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#10

Heptane

Concen: 9.957 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033700.D

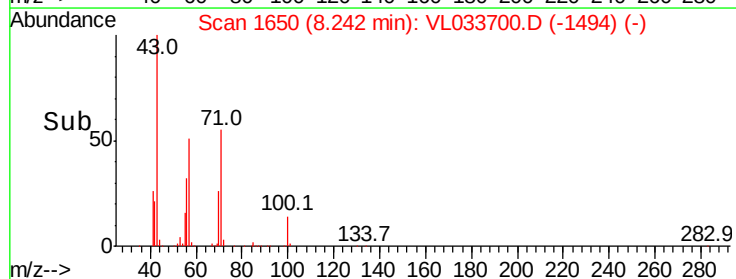
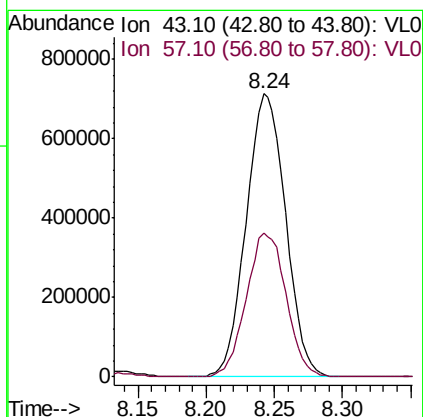
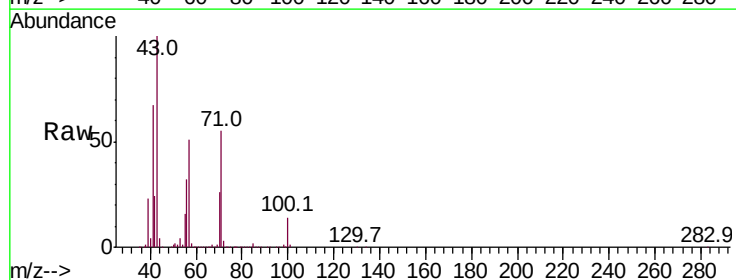
Acq: 17 May 2019 1:59

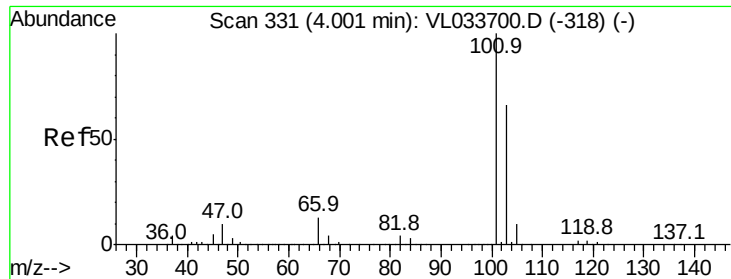
Tgt Ion: 43 Resp: 1424737

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0





#11

Trichlorofluoromethane

Concen: 9.027 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:101 Resp: 2088194

Ion Ratio Lower Upper

101 100

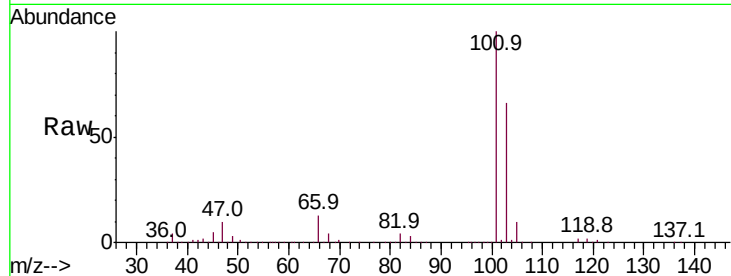
103 65.7 52.6 78.8

Manual Integrations

APPROVED

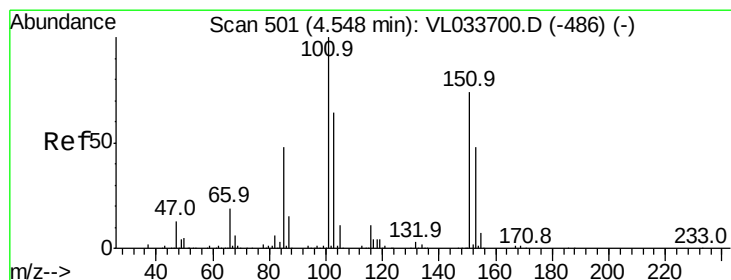
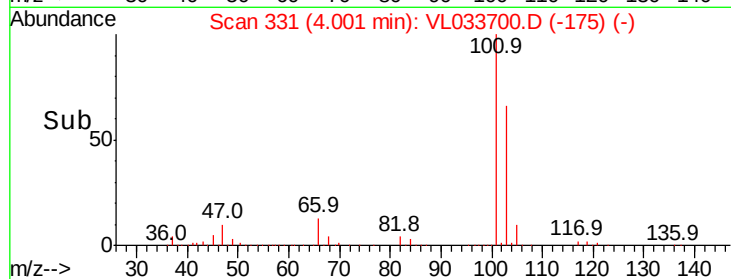
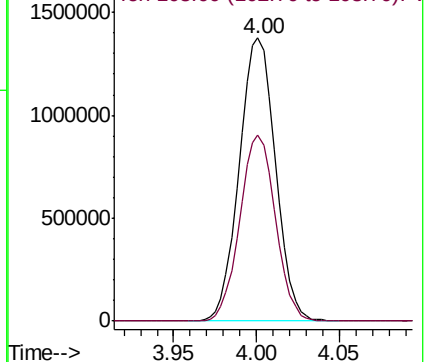
MMDadoda

5/20/2019 12:04:54 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.250 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033700.D

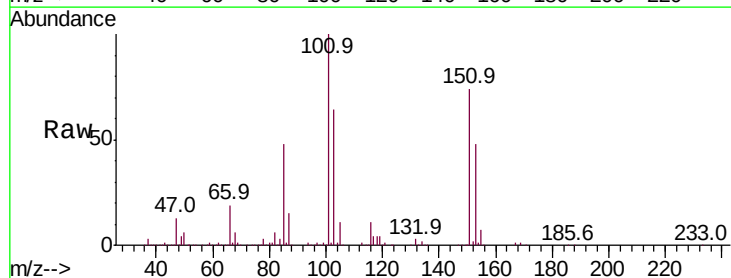
Acq: 17 May 2019 1:59

Tgt Ion:101 Resp: 1443182

Ion Ratio Lower Upper

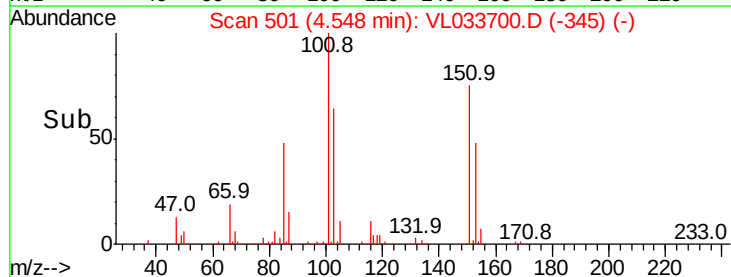
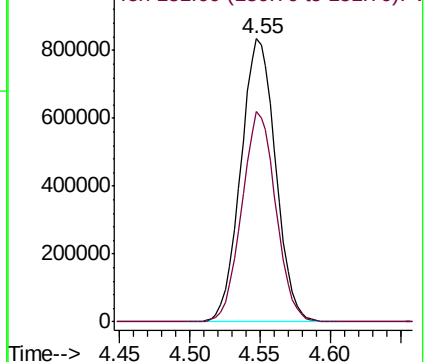
101 100

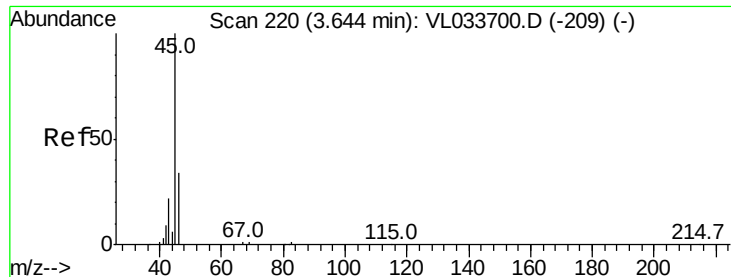
151 72.9 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





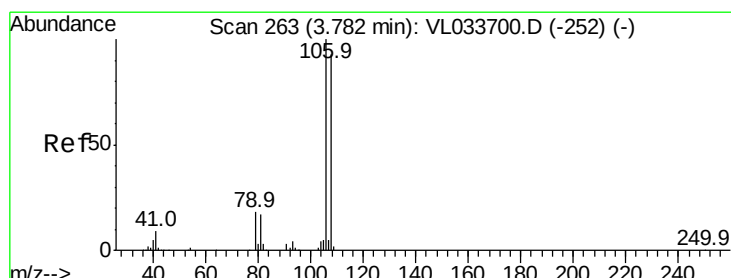
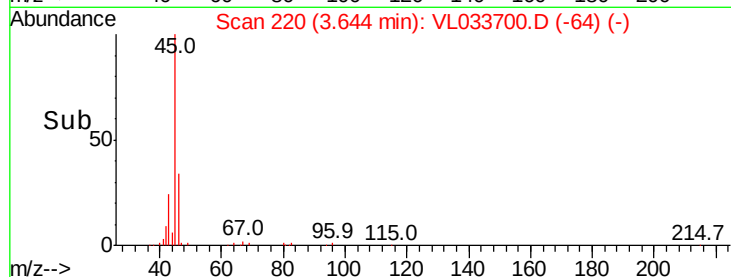
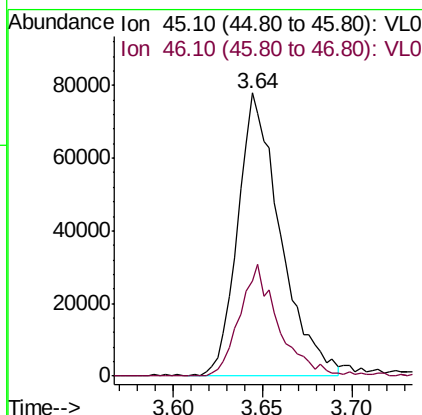
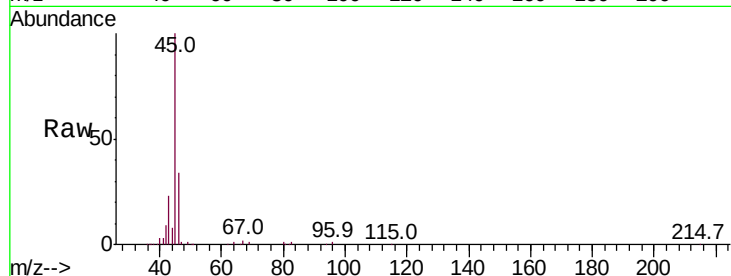
#13
Ethanol
Concen: 7.426 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.9	14.8	59.0

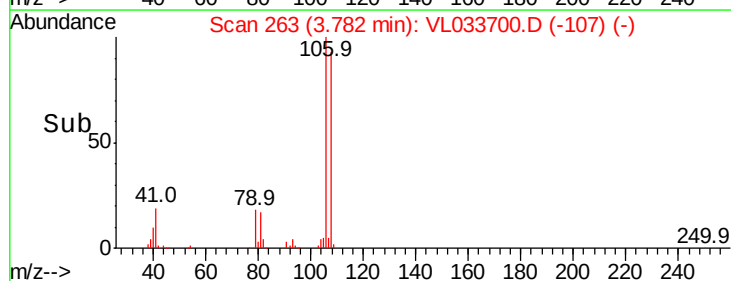
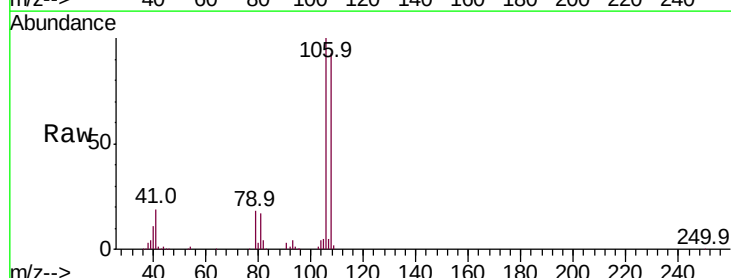
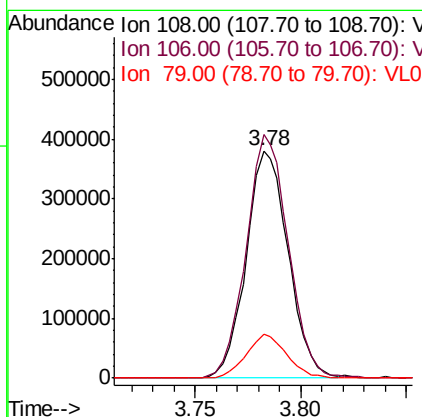
Manual Integrations
APPROVED

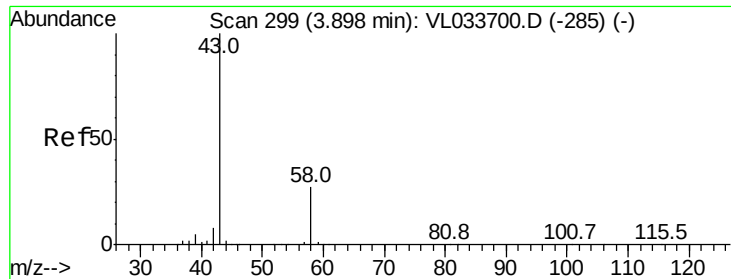
MMDadoda
5/20/2019 12:04:54 PM



#14
Bromoethene
Concen: 8.750 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.0	86.5	129.7
79	19.1	15.1	22.7





#15

Acetone

Concen: 8.398 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1321766

Ion Ratio Lower Upper

43 100

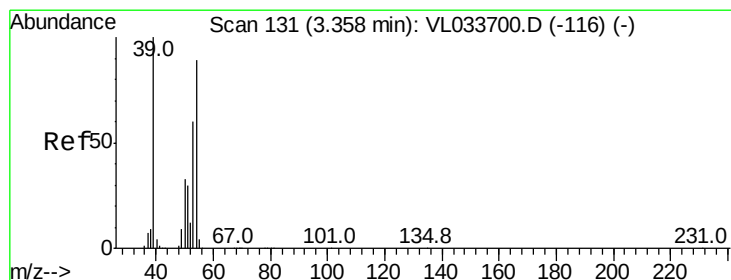
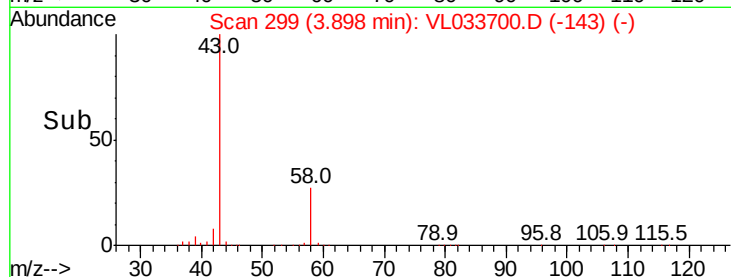
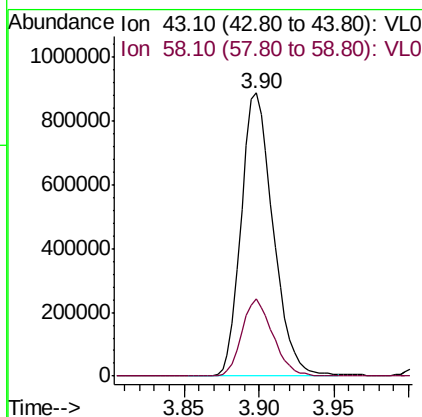
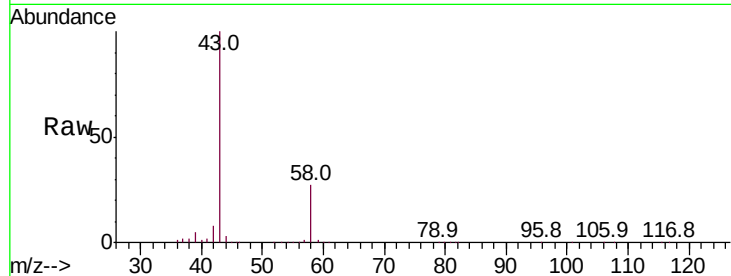
58 26.6 21.3 31.9

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#16

1,3-Butadiene

Concen: 8.566 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033700.D

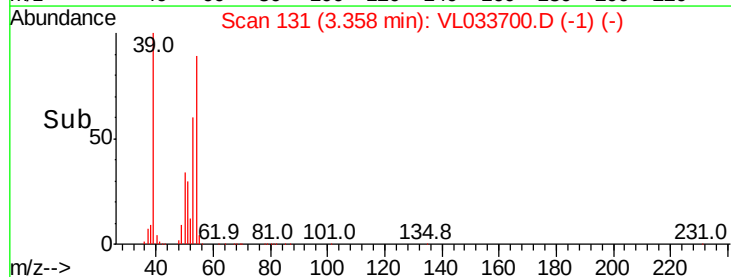
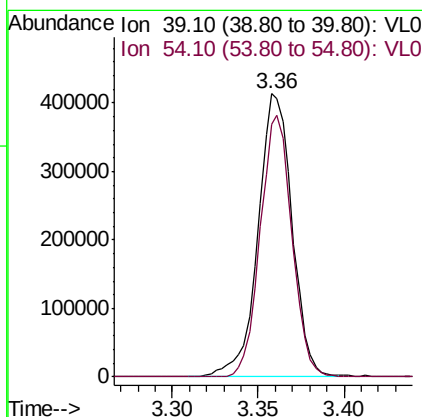
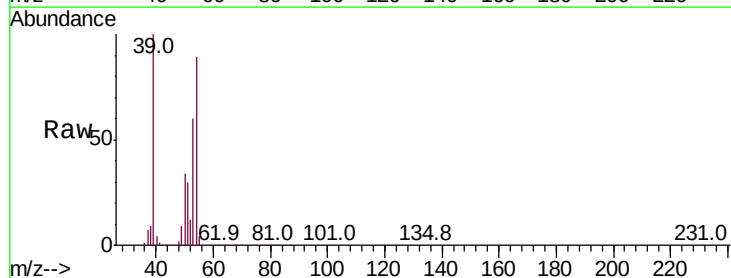
Acq: 17 May 2019 1:59

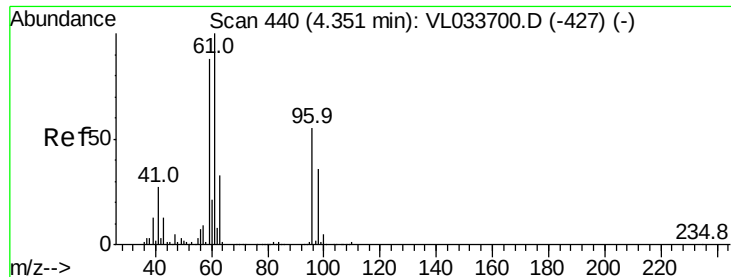
Tgt Ion: 39 Resp: 565787

Ion Ratio Lower Upper

39 100

54 86.3 69.0 103.6





#17

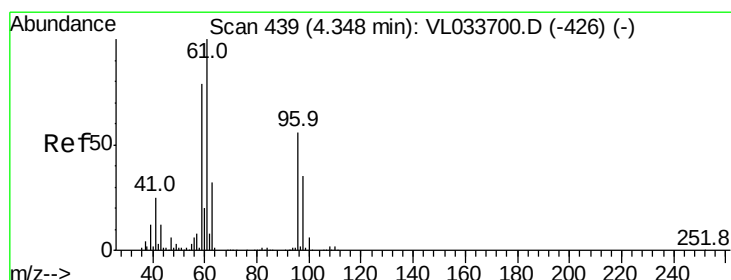
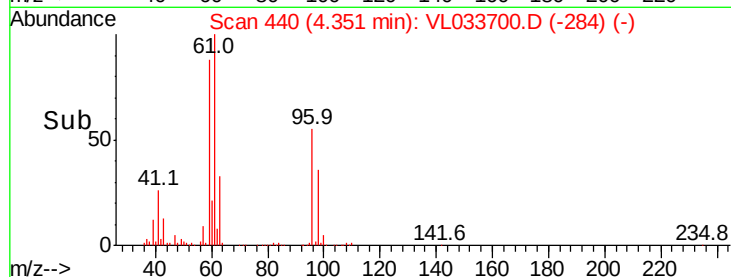
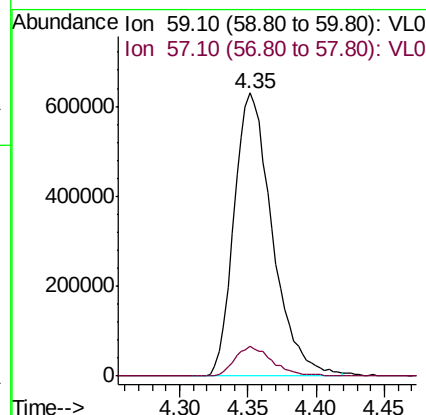
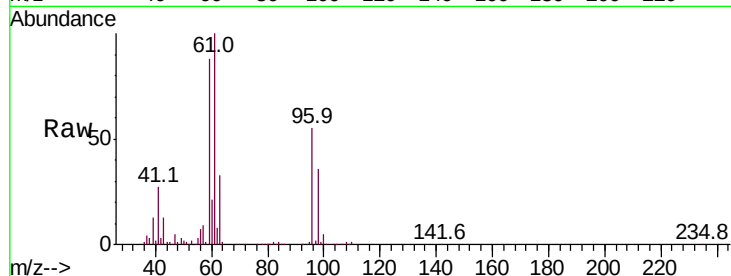
tert-Butyl alcohol
Concen: 10.136 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1227478
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

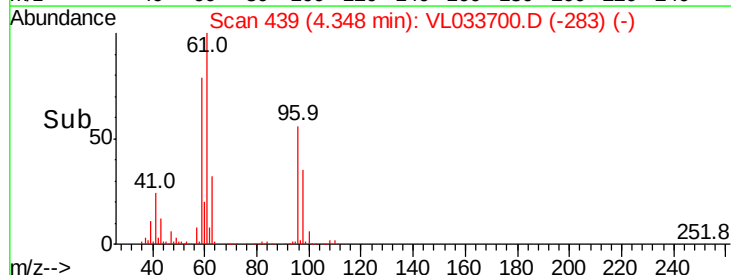
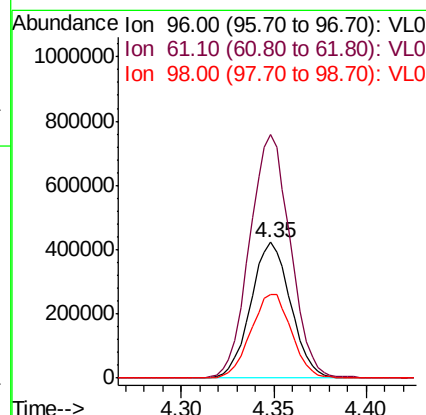
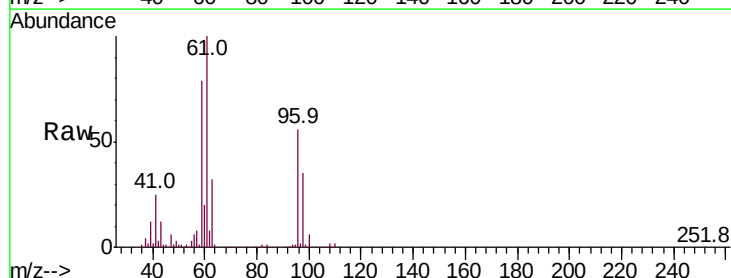
MMDadoda
5/20/2019 12:04:54 PM

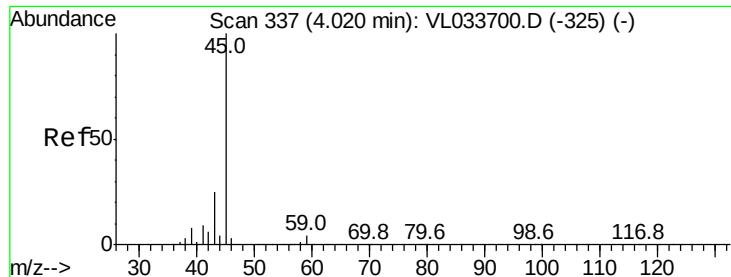


#18

1,1-Dichloroethene
Concen: 9.385 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 96 Resp: 630599
Ion Ratio Lower Upper
96 100
61 178.9 143.1 214.7
98 61.9 49.5 74.3





#19

Isopropyl Alcohol

Concen: 9.863 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 969250

Ion Ratio Lower Upper

45 100

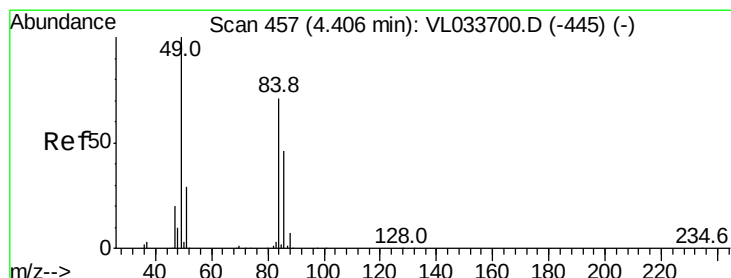
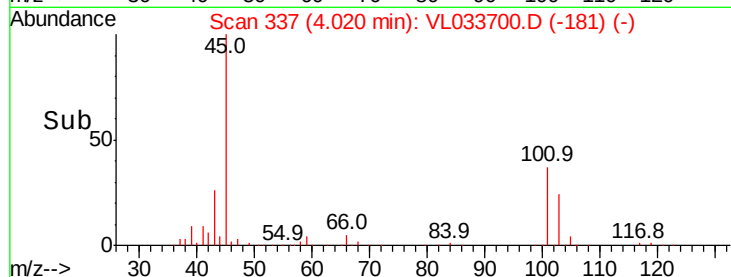
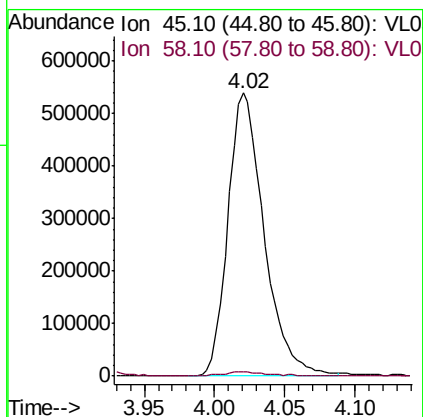
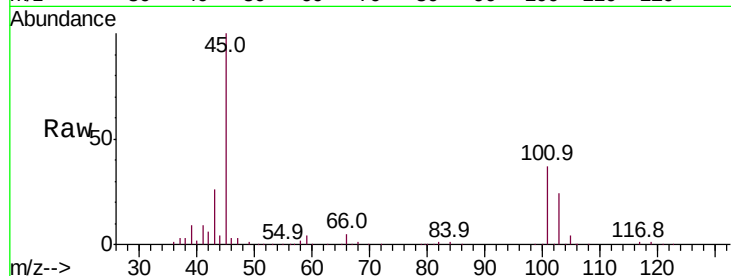
58 1.9 1.6 2.4

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#20

Methylene Chloride

Concen: 8.742 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Tgt Ion: 84 Resp: 520218

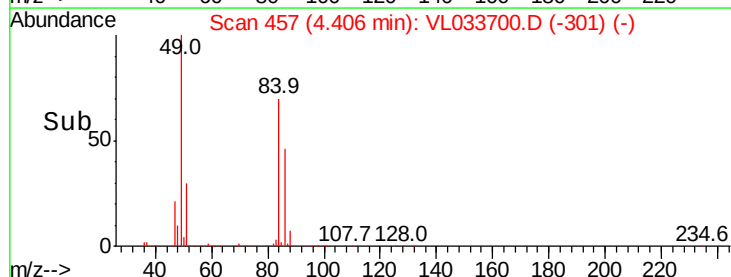
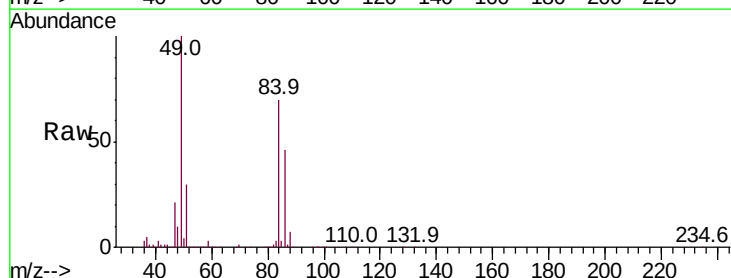
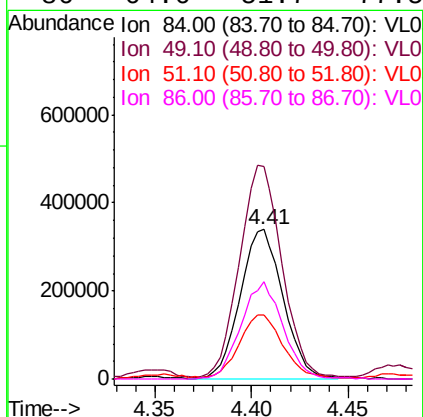
Ion Ratio Lower Upper

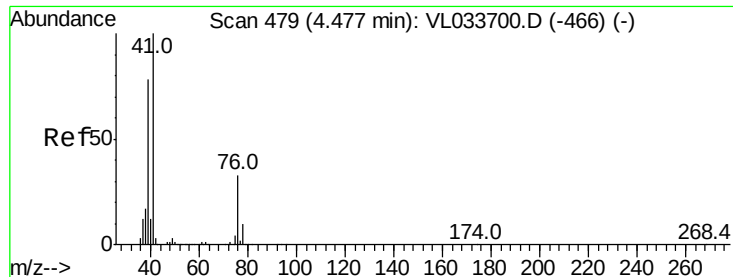
84 100

49 141.0 112.8 169.2

51 41.7 33.4 50.0

86 64.6 51.7 77.5





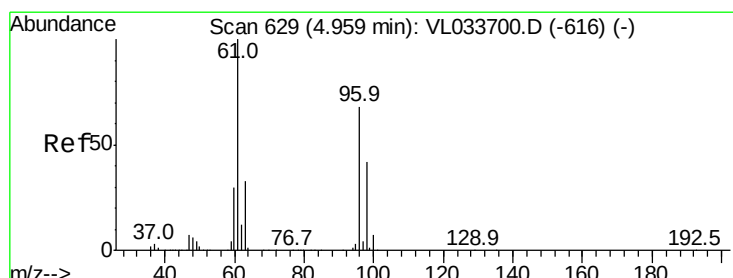
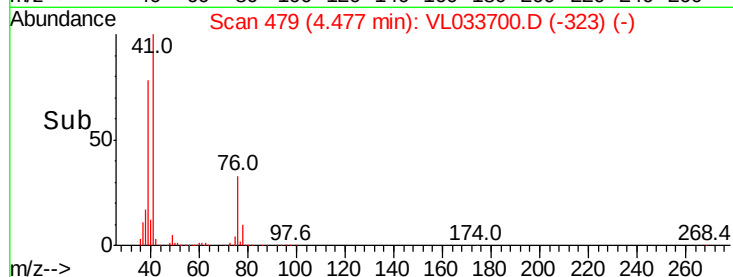
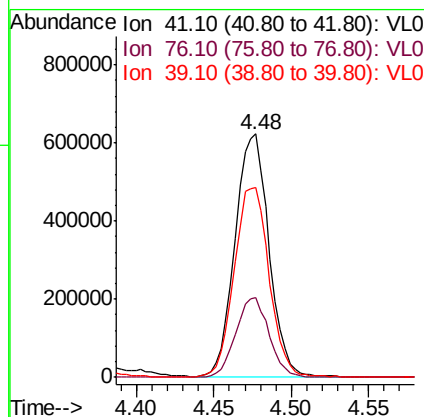
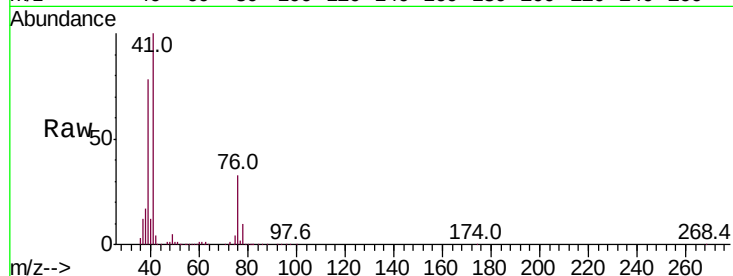
#21
Allvl Chloride
Concen: 9.842 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.4	25.9	38.9
39	80.8	64.6	97.0

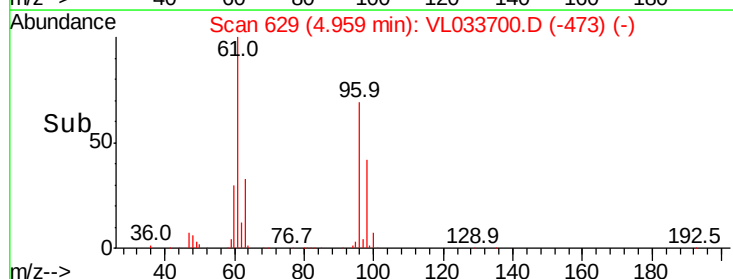
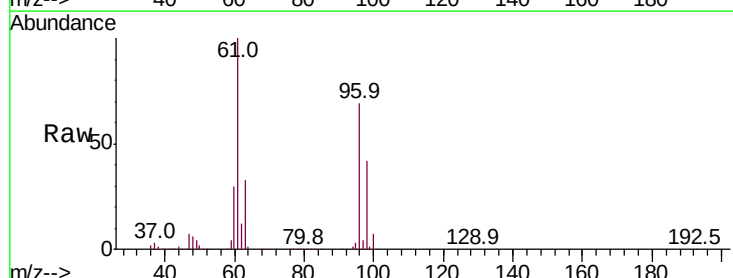
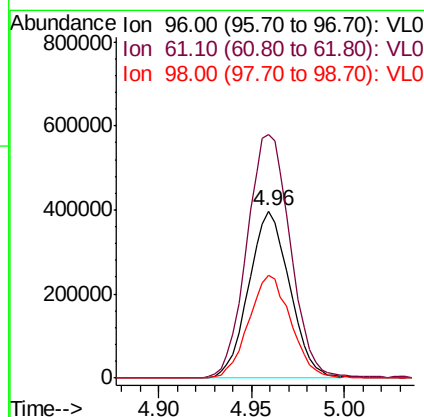
Manual Integrations
APPROVED

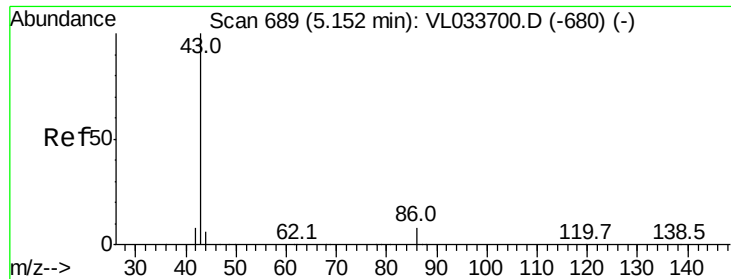
MMDadoda
5/20/2019 12:04:54 PM



#22
trans-1,2-Dichloroethene
Concen: 9.142 ppbv
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.0	116.8	175.2
98	61.7	49.4	74.0





#23

Vinyl Acetate

Concen: 9.744 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1976967

Ion Ratio Lower Upper

43 100

86 7.5 6.0 9.0

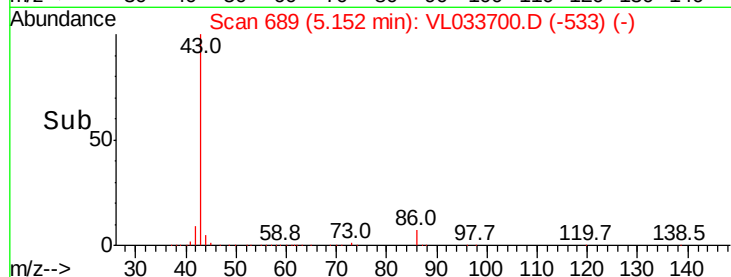
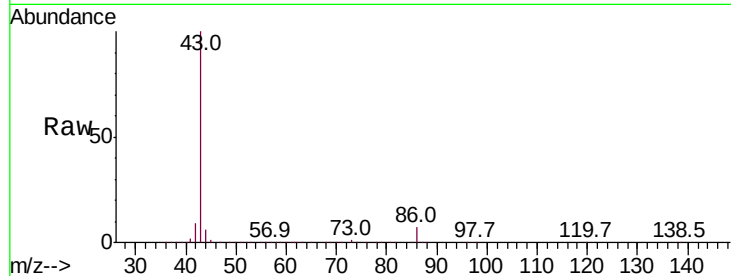
42 9.4 7.5 11.3

44 5.5 4.4 6.6

Manual Integrations
APPROVED

MMDadoda

5/20/2019 12:04:54 PM

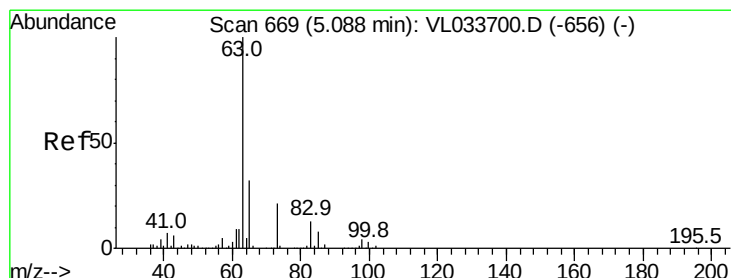
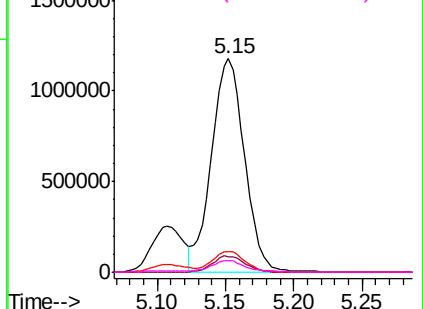


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.912 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

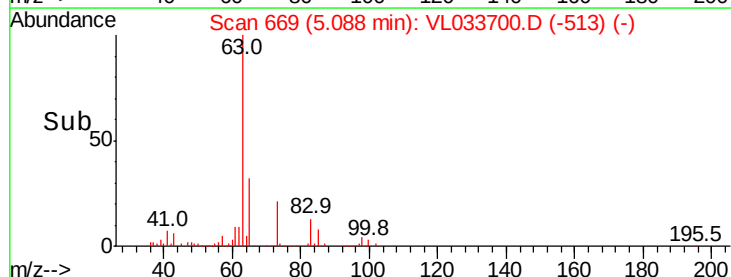
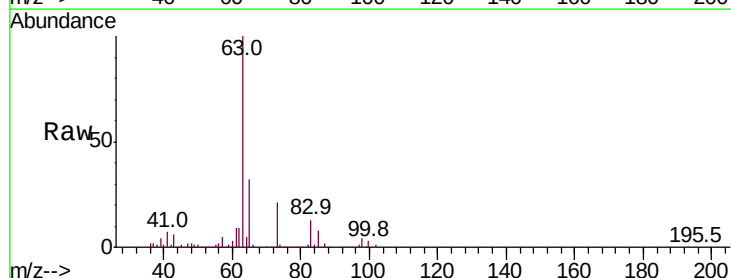
Tgt Ion: 63 Resp: 1365989

Ion Ratio Lower Upper

63 100

98 3.7 1.8 5.5

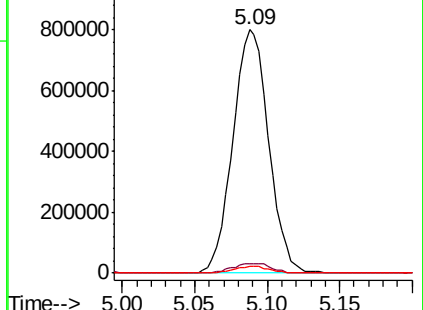
100 2.8 1.4 4.2

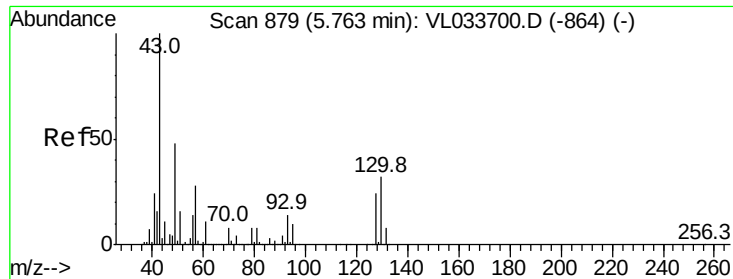


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





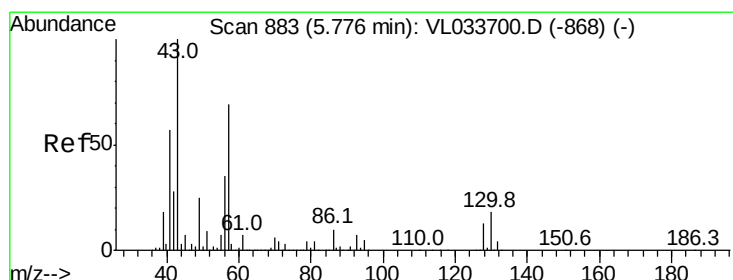
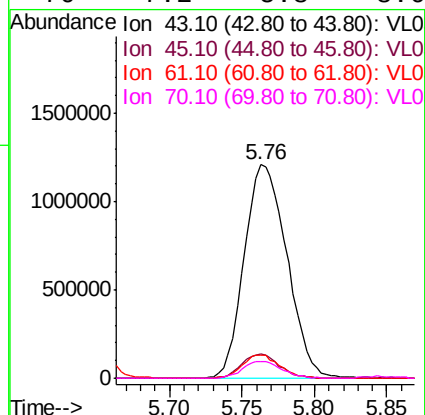
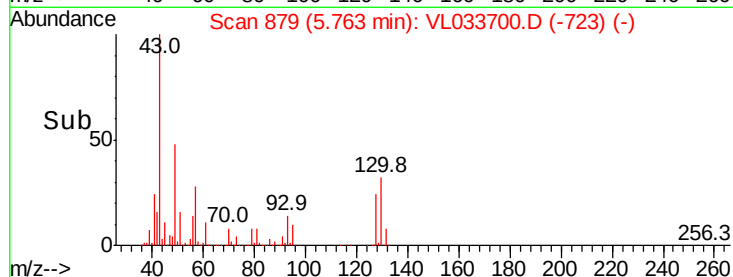
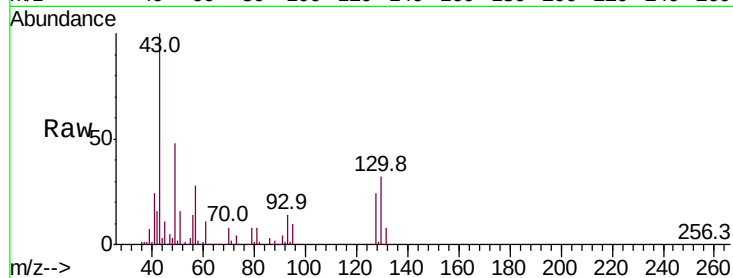
#25
Ethyl Acetate
Concen: 9.642 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	43	Ratio	100	Lower	Upper
43	100				
45	10.0		7.9	11.9	
61	9.8		7.7	11.5	
70	7.2		5.8	8.6	

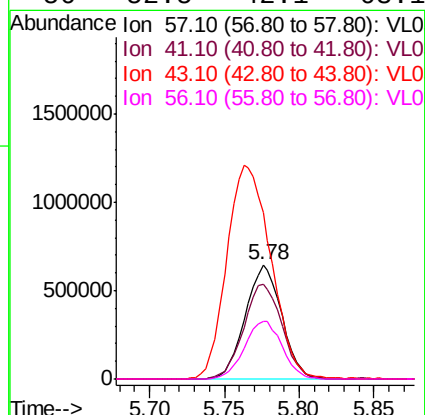
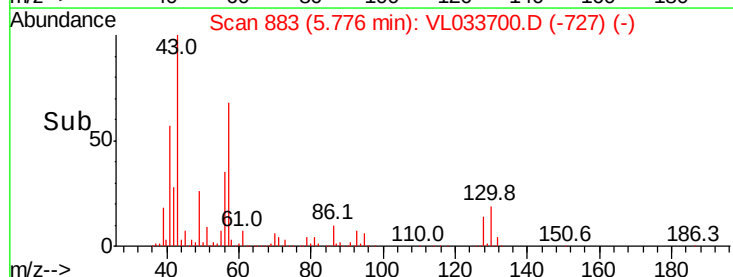
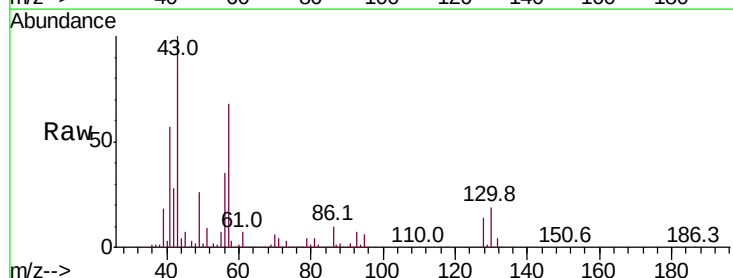
Manual Integrations
APPROVED

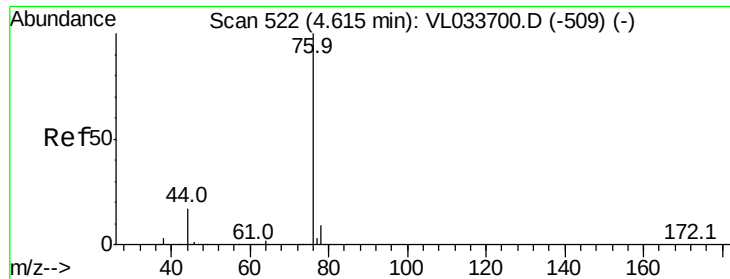
MMDadoda
5/20/2019 12:04:54 PM



#26
Hexane
Concen: 9.917 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion	57	Ratio	100	Lower	Upper
57	100				
41	87.1		69.8	104.6	
43	226.8		181.8	272.6	
56	52.5		42.1	63.1	





#27

Carbon Disulfide

Concen: 10.629 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1608504

Ion Ratio Lower Upper

76 100

44 17.5 13.8 20.8

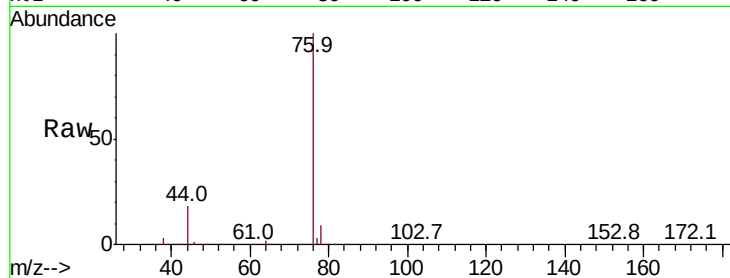
78 9.3 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

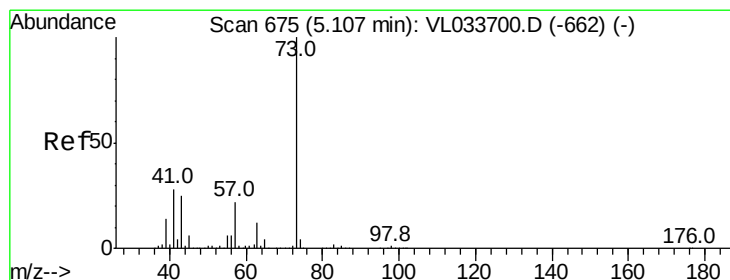
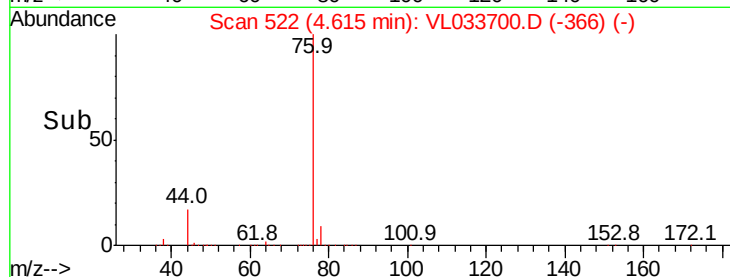
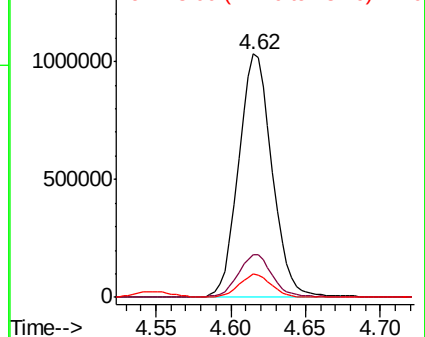
5/20/2019 12:04:54 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.747 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033700.D

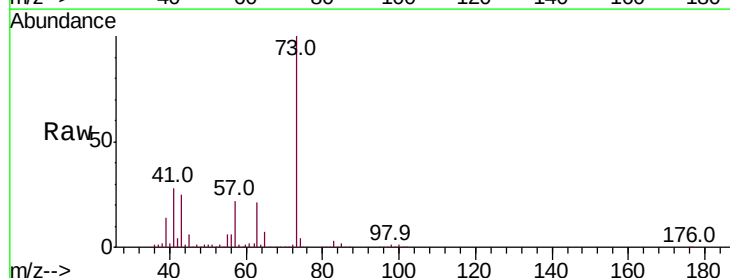
Acq: 17 May 2019 1:59

Tgt Ion: 73 Resp: 1794779

Ion Ratio Lower Upper

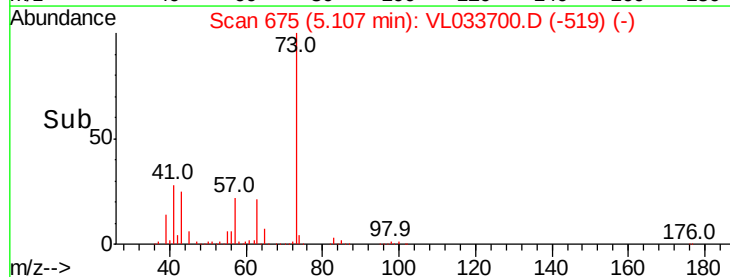
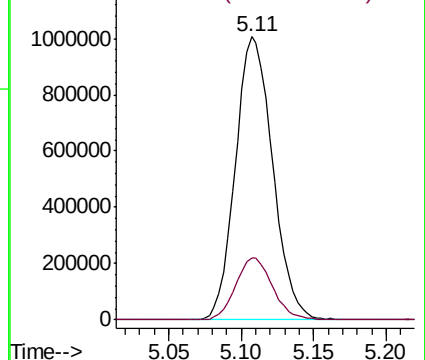
73 100

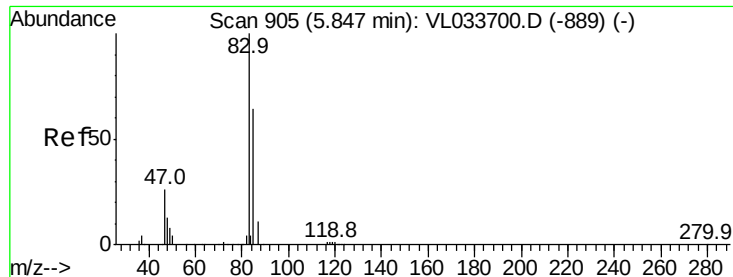
57 21.8 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





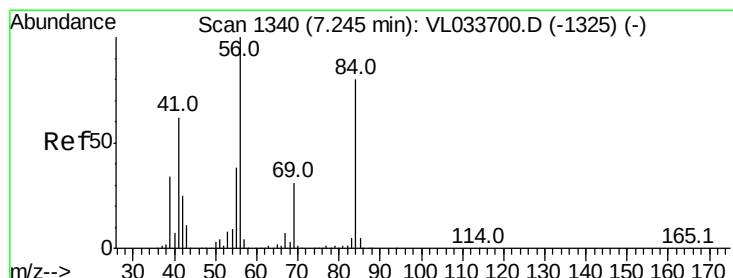
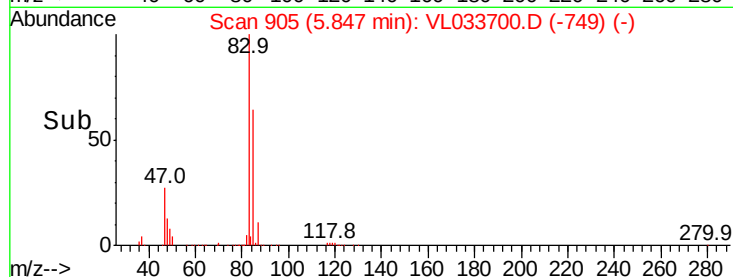
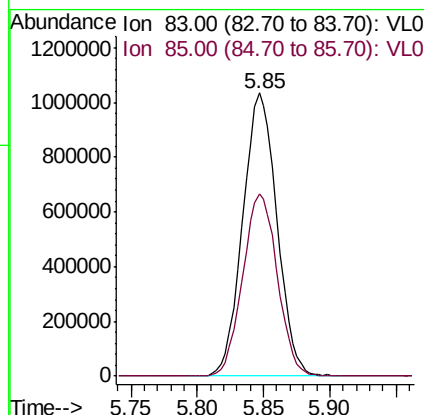
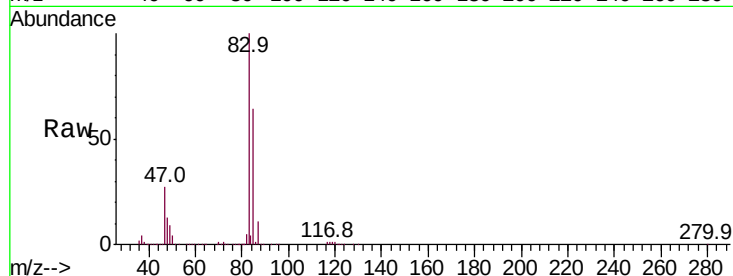
#29
Chloroform
Concen: 9.391 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1856904
Ion Ratio Lower Upper
83 100
85 64.4 51.5 77.3

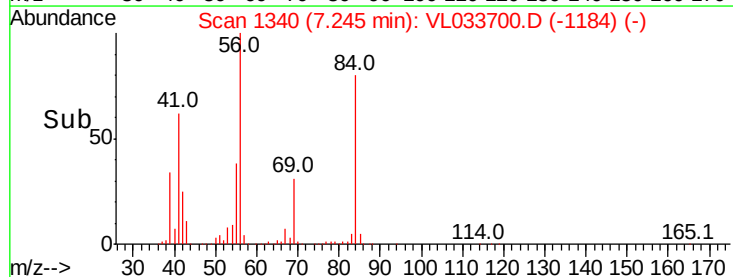
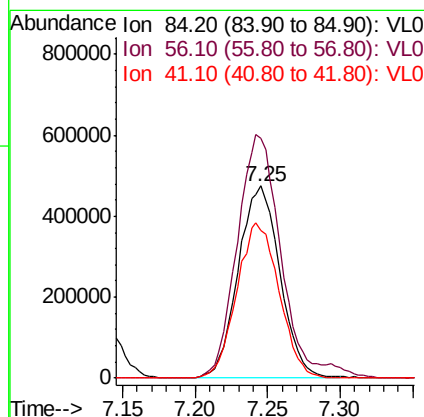
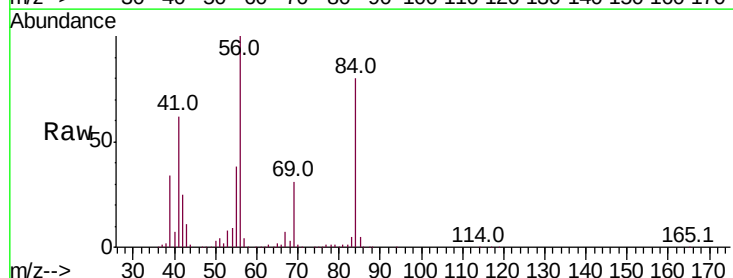
Manual Integrations
APPROVED

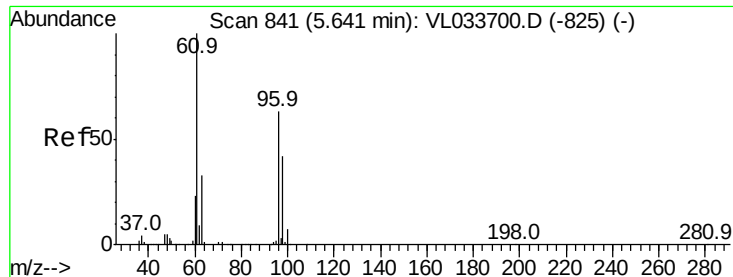
MMDadoda
5/20/2019 12:04:54 PM



#30
Cyclohexane
Concen: 10.302 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 84 Resp: 948099
Ion Ratio Lower Upper
84 100
56 134.5 107.7 161.5
41 82.2 66.0 99.0





#31

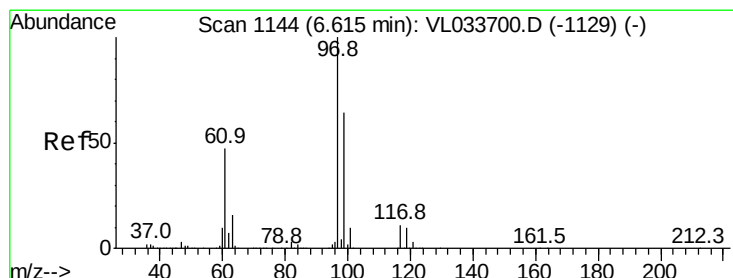
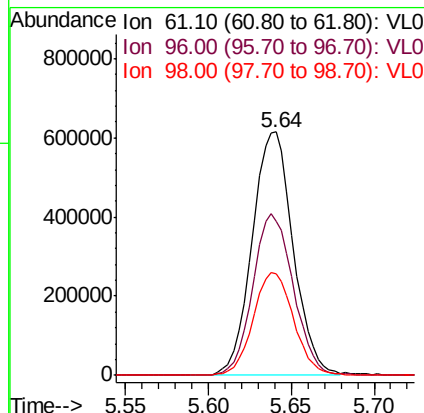
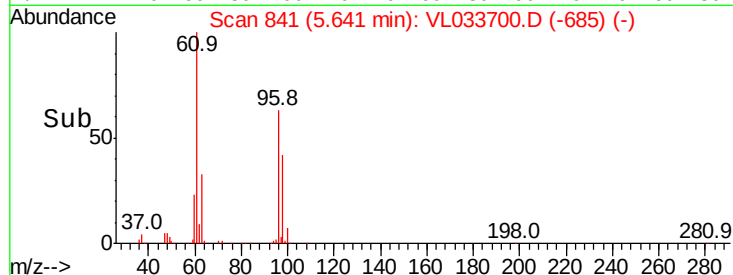
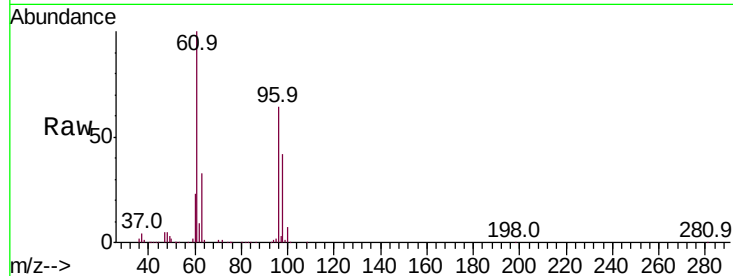
cis-1,2-Dichloroethene
 Concen: 9.769 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.5	50.8	76.2
98	41.6	33.3	49.9

Manual Integrations
 APPROVED

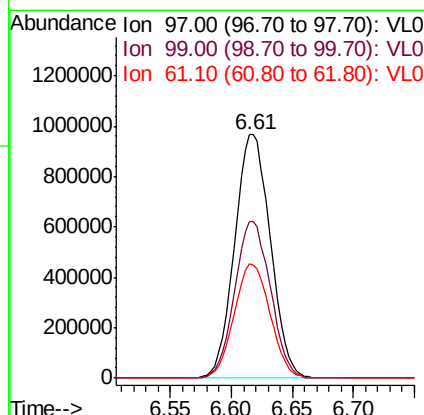
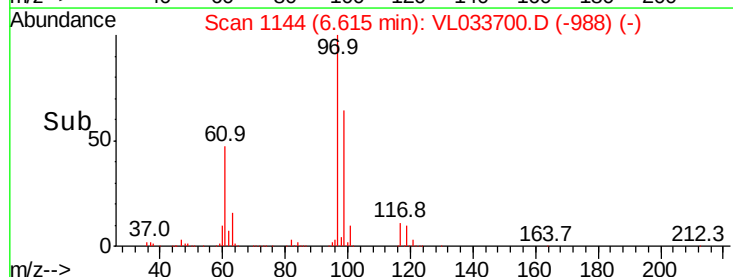
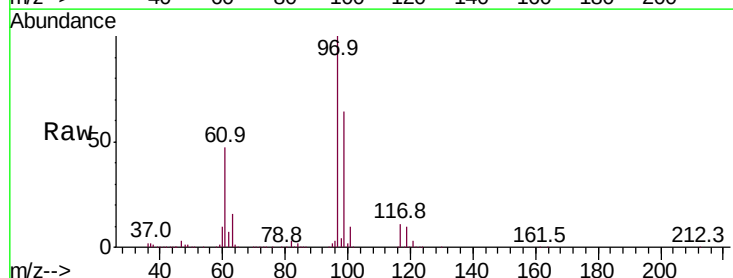
MMDadoda
 5/20/2019 12:04:54 PM

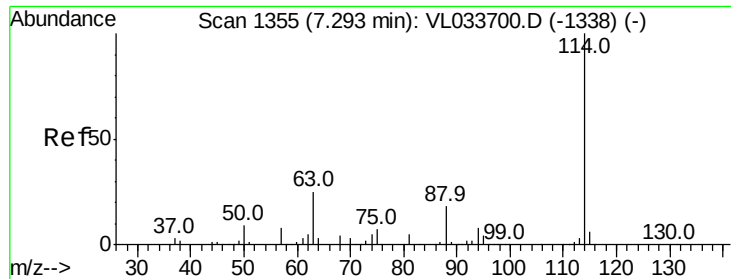


#32

1,1,1-Trichloroethane
 Concen: 9.630 ppbv
 RT: 6.61 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	47.3	37.8	56.8





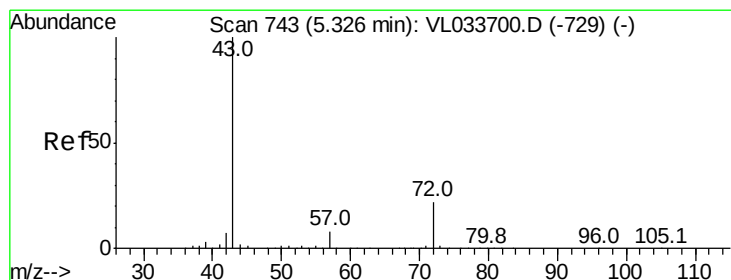
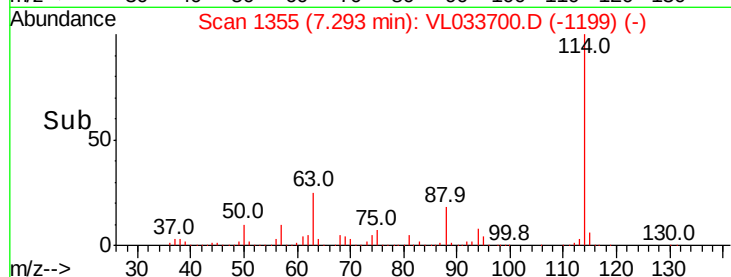
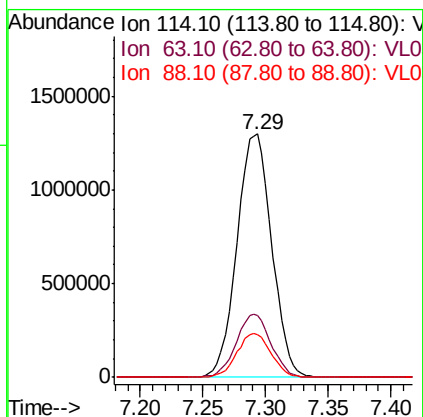
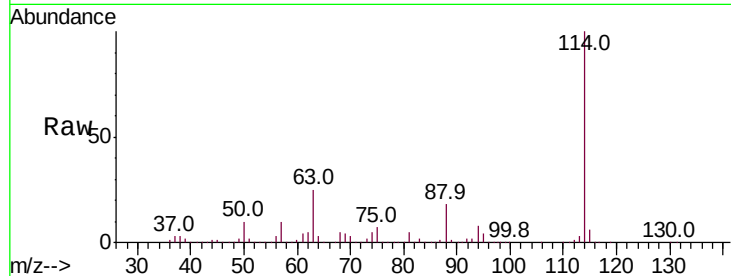
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.9	31.3
88	17.8	14.3	21.5

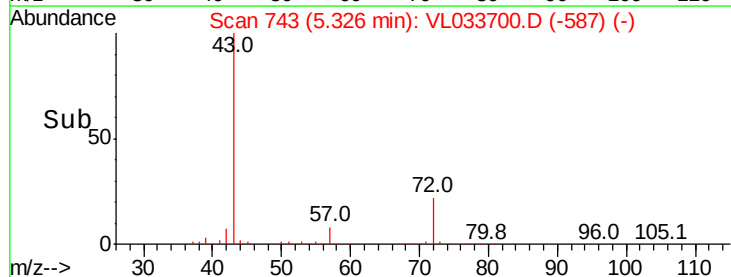
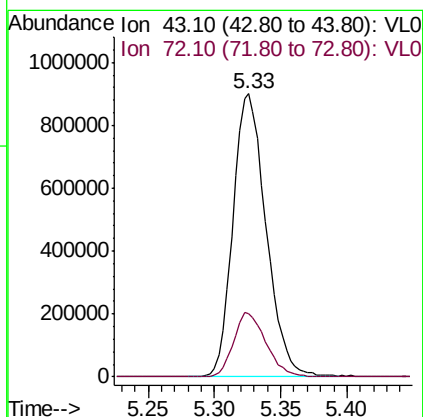
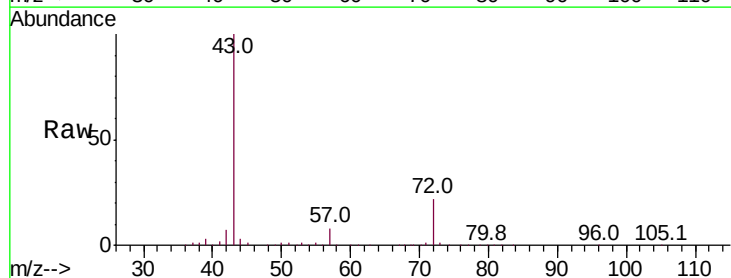
Manual Integrations
 APPROVED

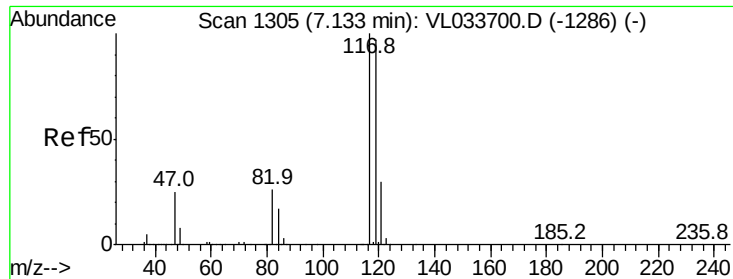
MMDadoda
 5/20/2019 12:04:54 PM



#34
 2-Butanone
 Concen: 9.711 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.8	26.6





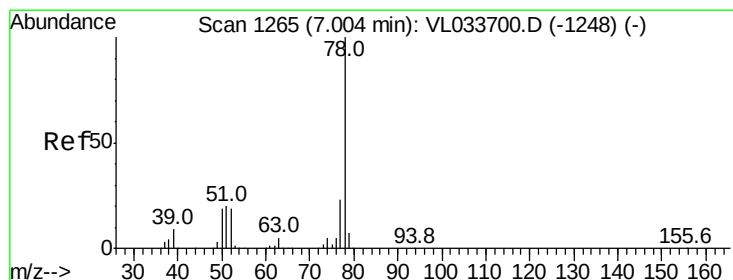
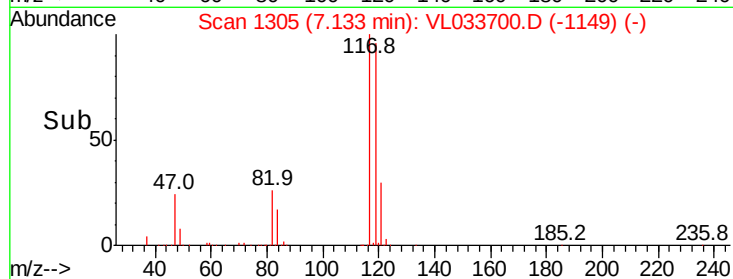
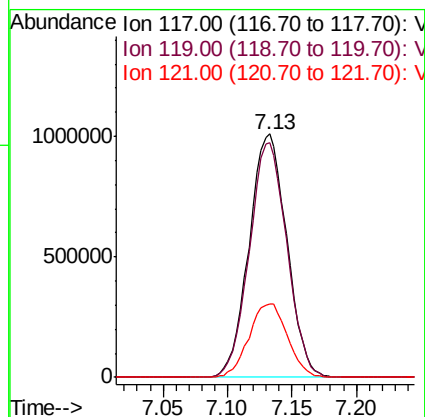
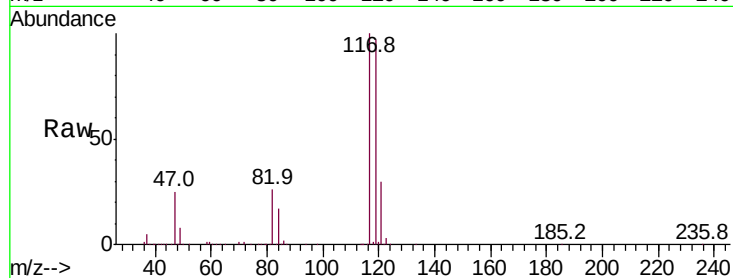
#35
Carbon Tetrachloride
Concen: 10.016 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 2061441
Ion Ratio Lower Upper
117 100
119 96.5 77.2 115.8
121 30.1 24.1 36.1

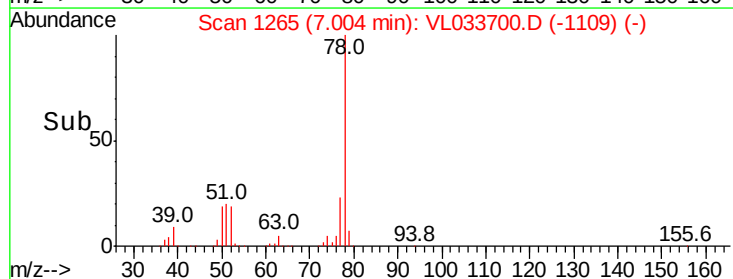
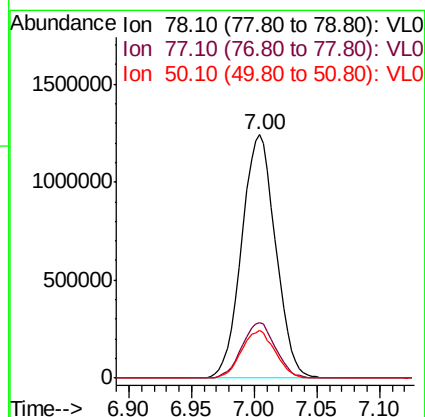
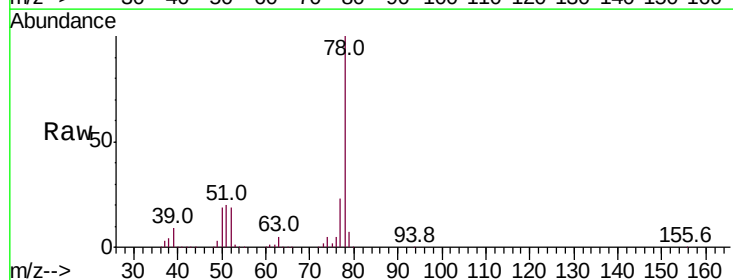
Manual Integrations
APPROVED

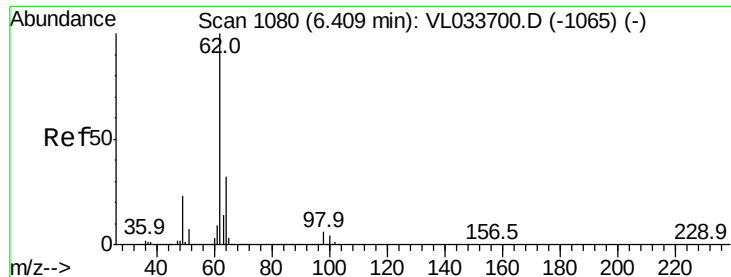
MMDadoda
5/20/2019 12:04:54 PM



#36
Benzene
Concen: 10.327 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 78 Resp: 2333922
Ion Ratio Lower Upper
78 100
77 23.0 18.4 27.6
50 19.4 15.5 23.3





#37

1,2-Dichloroethane

Concen: 9.149 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1441332

Ion Ratio Lower Upper

62 100

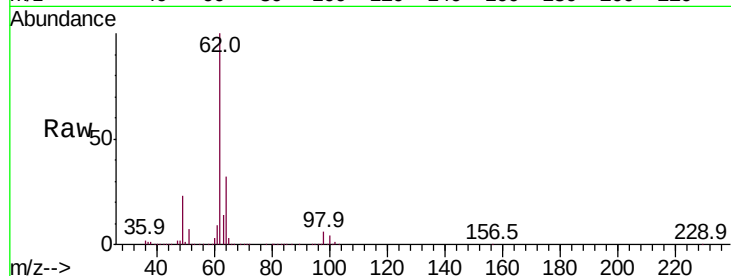
98 5.6 4.5 6.7

Manual Integrations

APPROVED

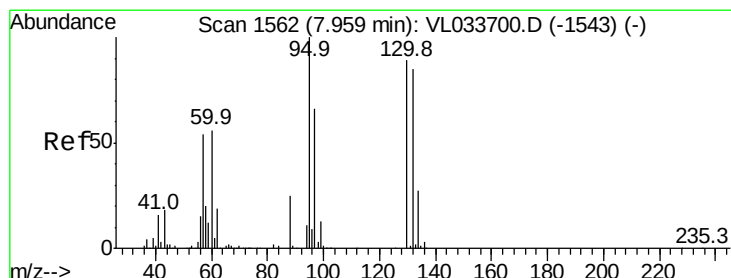
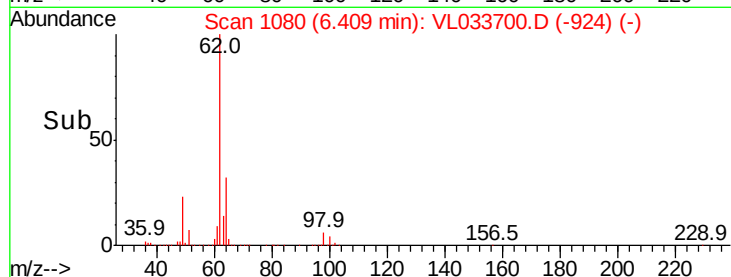
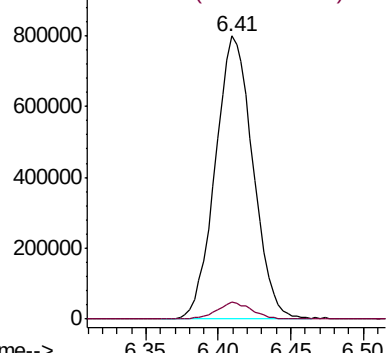
MMDadoda

5/20/2019 12:04:54 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 11.068 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Tgt Ion:130 Resp: 912645

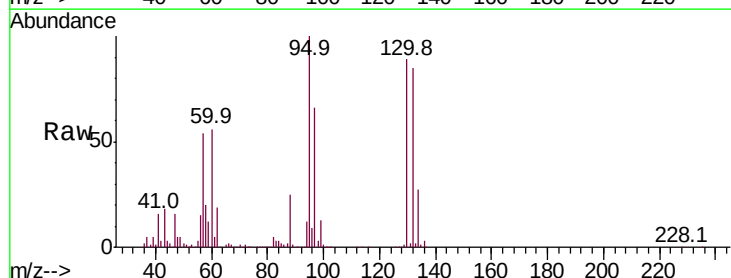
Ion Ratio Lower Upper

130 100

95 112.8 90.2 135.4

132 95.5 76.4 114.6

97 74.7 59.8 89.6

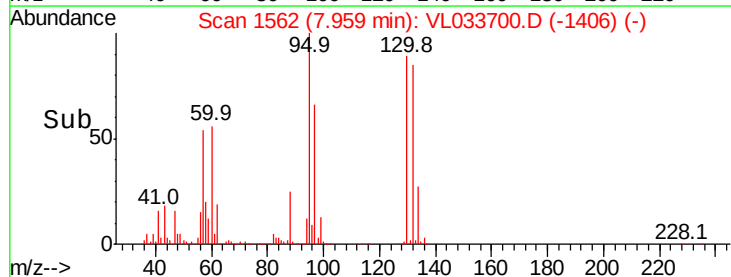
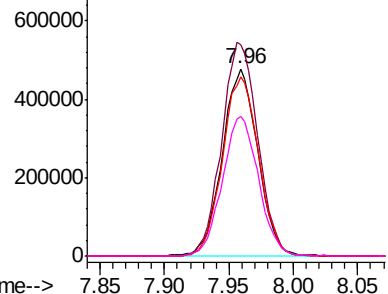


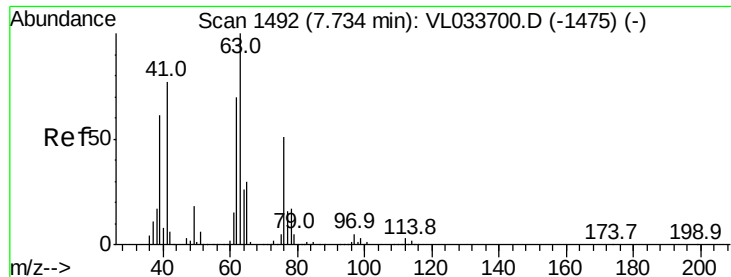
Abundance Ion 130.00 (129.70 to 130.70): V

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





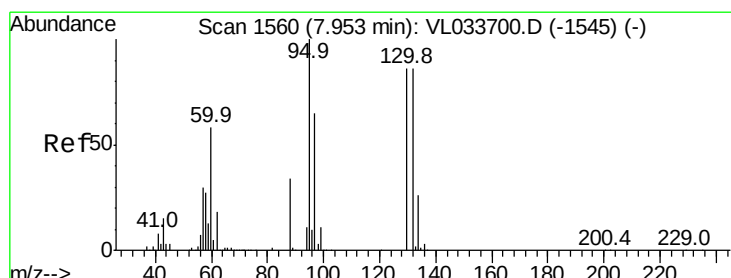
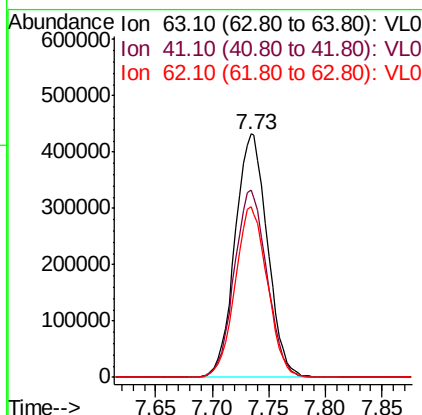
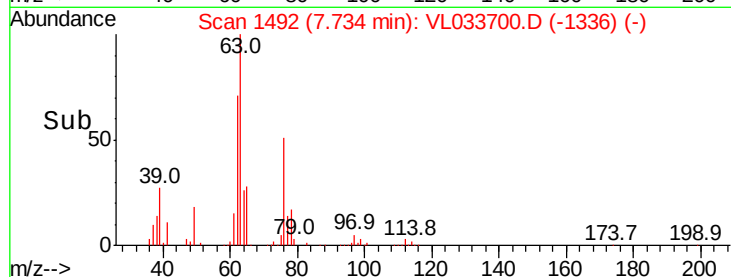
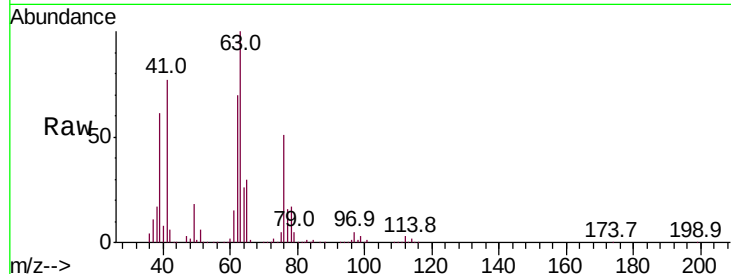
#39
 1,2-Dichloropropane
 Concen: 10.241 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.9	61.5	92.3
62	70.3	56.2	84.4

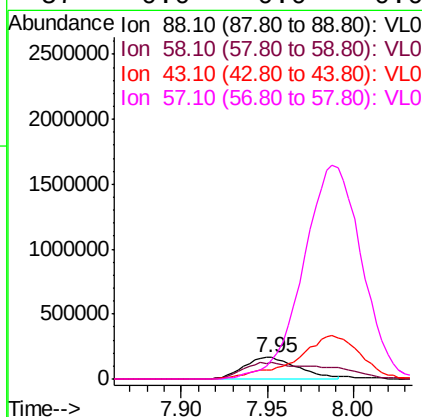
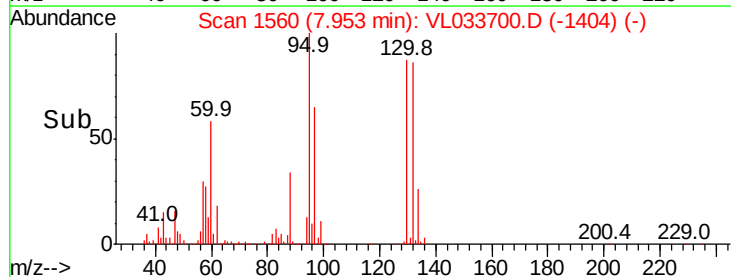
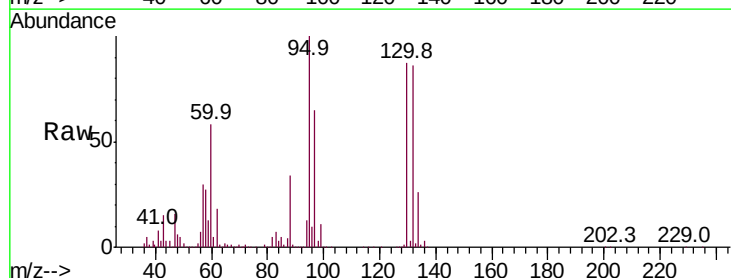
Manual Integrations
 APPROVED

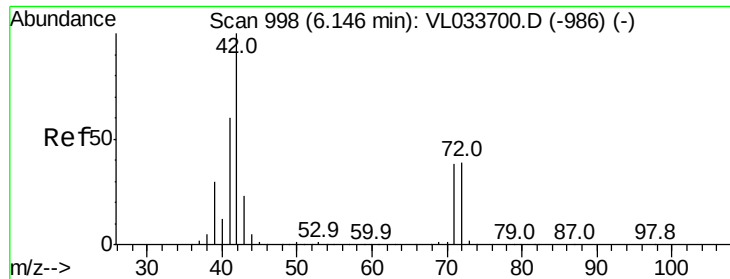
MMDadoda
 5/20/2019 12:04:54 PM



#40
 1,4-Dioxane
 Concen: 10.748 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.0	101.8	152.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 11.126 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

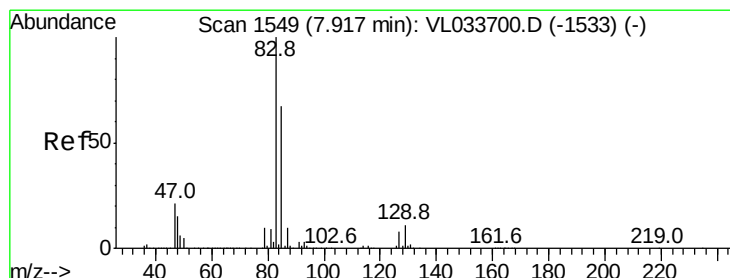
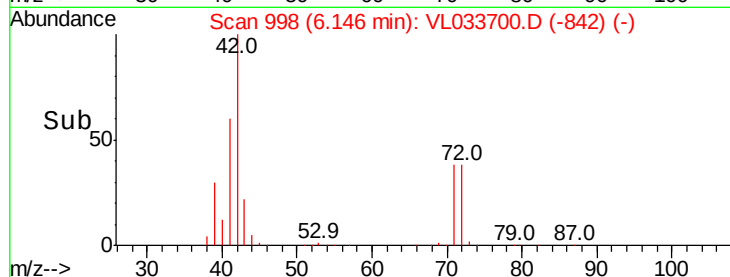
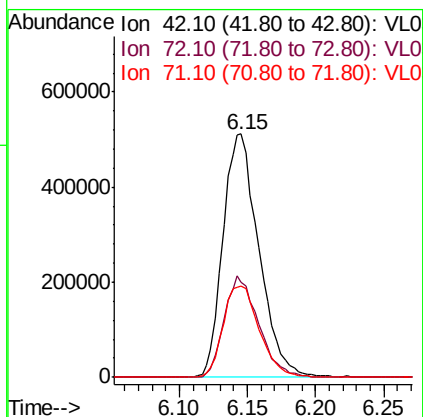
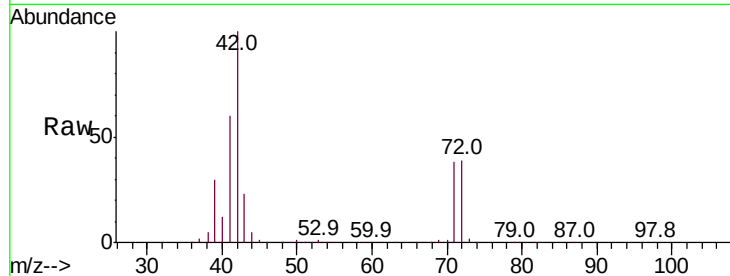
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	934508
Ion Ratio	Lower	Upper	
42	100		
72	40.1	32.0	48.0
71	38.1	30.4	45.6

Manual Integrations
APPROVED

MMDadoda
5/20/2019 12:04:54 PM



#42

Bromodichloromethane

Concen: 10.078 ppbv

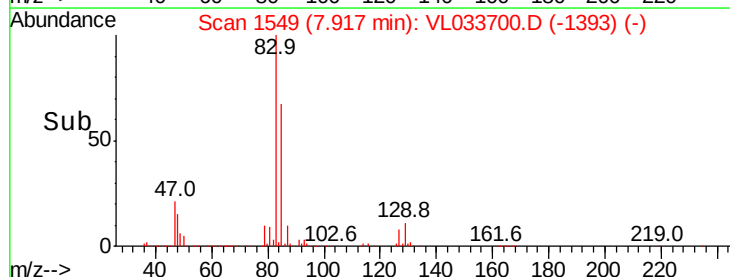
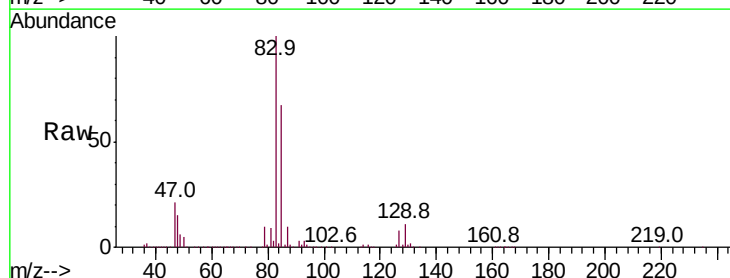
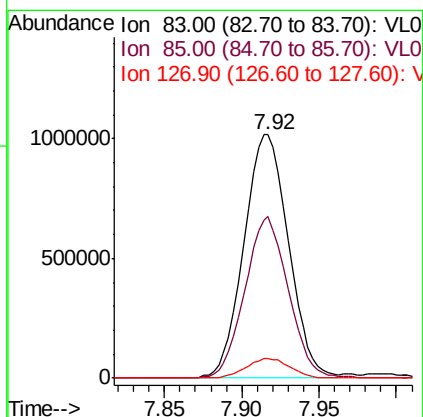
RT: 7.92 min Scan# 1549

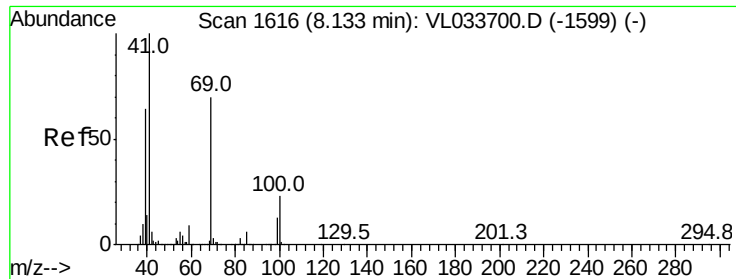
Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Tgt Ion:	83	Resp:	2040565
Ion Ratio	Lower	Upper	
83	100		
85	66.6	53.3	79.9
127	8.1	6.5	9.7





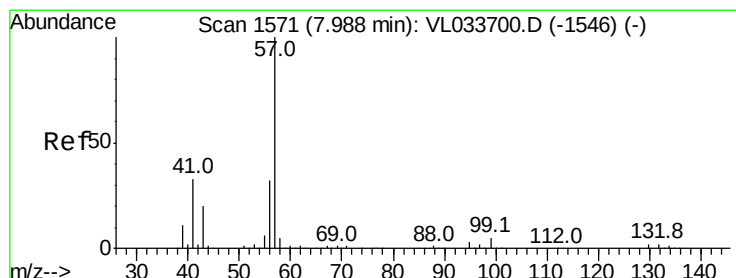
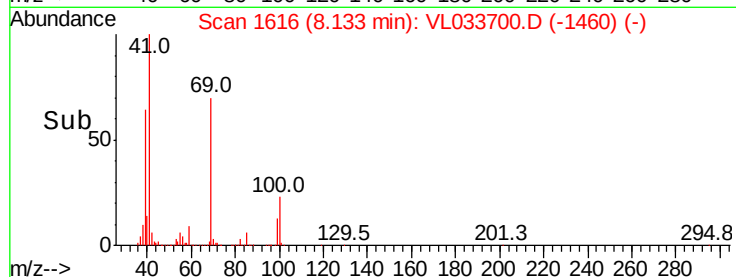
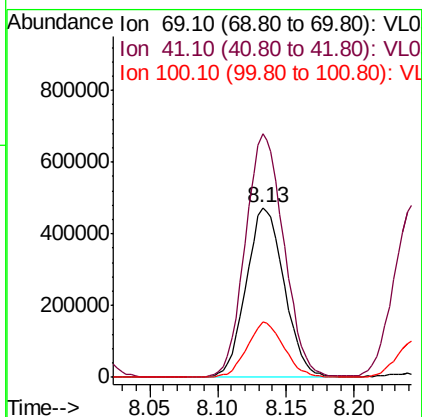
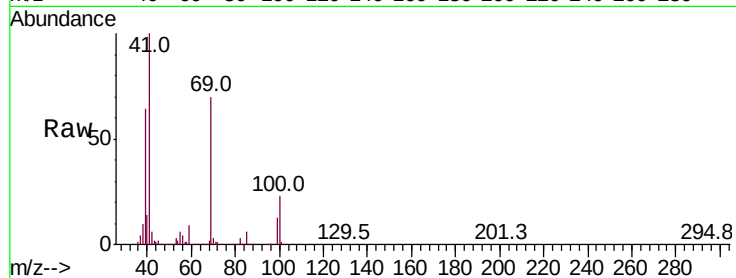
#43
Methyl Methacrylate
Concen: 10.793 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.3	116.3	174.5
100	31.6	25.3	37.9

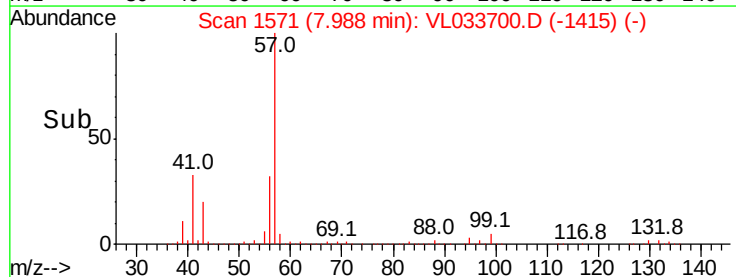
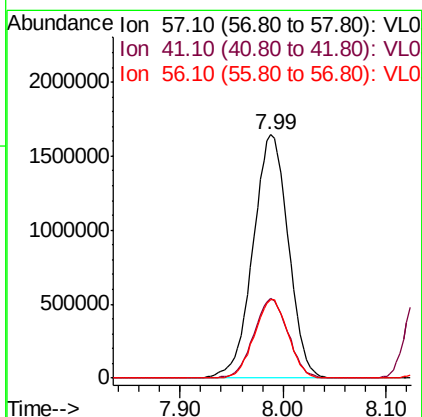
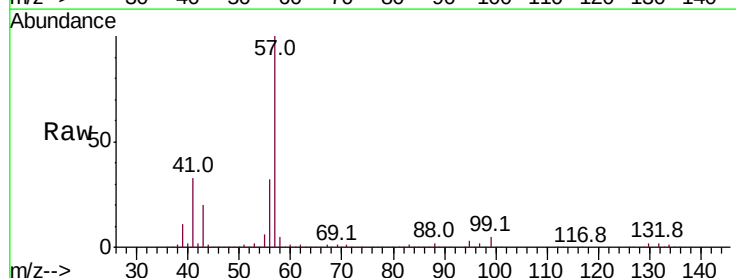
Manual Integrations
APPROVED

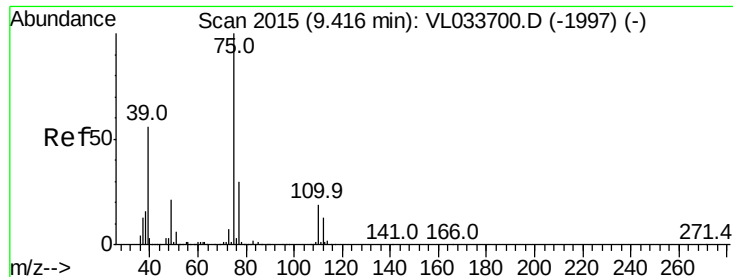
MMDadoda
5/20/2019 12:04:54 PM



#44
2,2,4-Trimethylpentane
Concen: 10.108 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.8	25.4	38.0
56	30.9	24.7	37.1





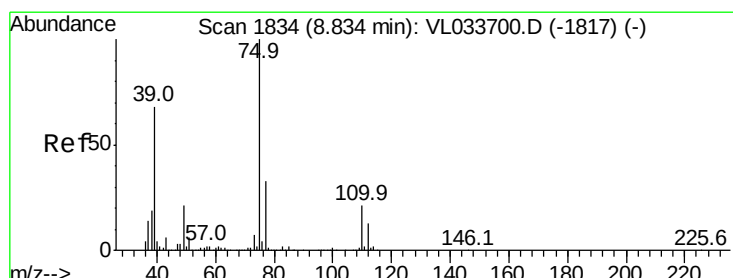
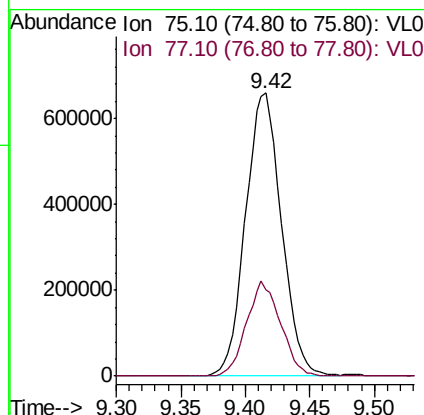
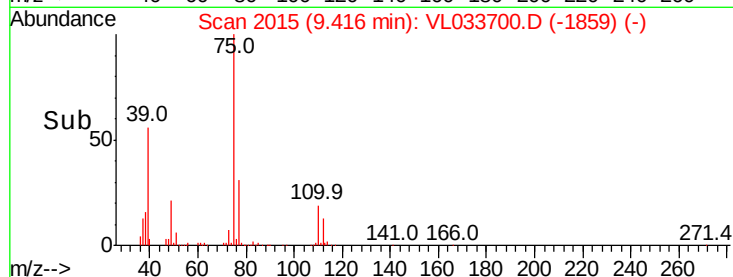
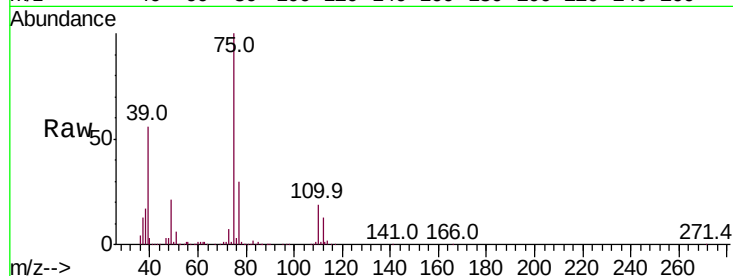
#45
t-1,3-Dichloropropene
Concen: 12.234 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1281681
Ion Ratio Lower Upper
75 100
77 30.5 24.4 36.6

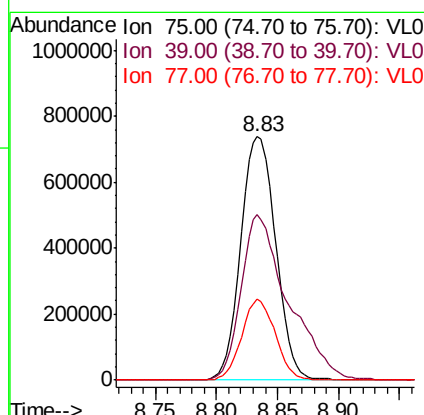
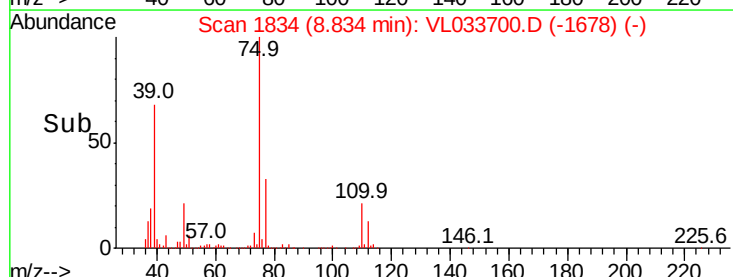
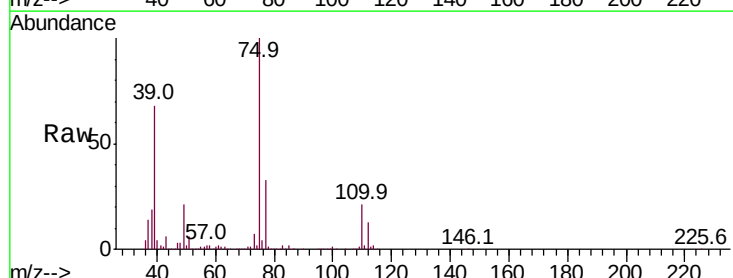
Manual Integrations
APPROVED

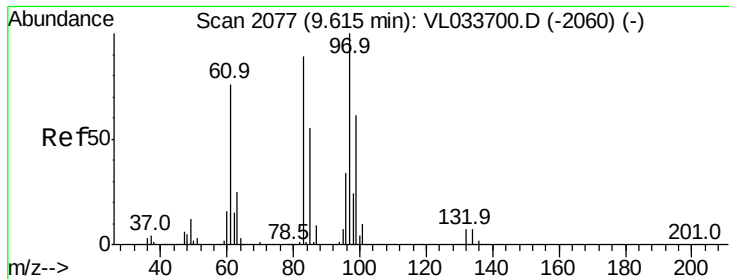
MMDadoda
5/20/2019 12:04:54 PM



#46
cis-1,3-Dichloropropene
Concen: 11.226 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 75 Resp: 1461909
Ion Ratio Lower Upper
75 100
39 68.0 54.4 81.6
77 33.2 26.6 39.8





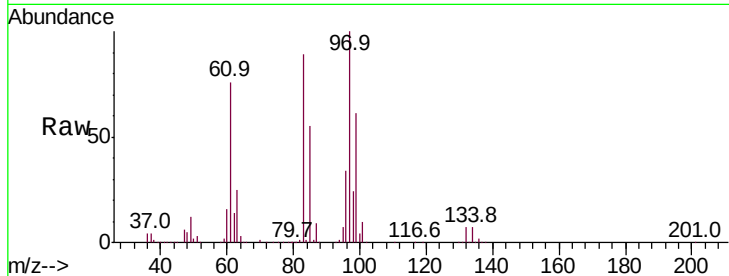
#47
 1,1,2-Trichloroethane
 Concen: 9.982 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.8	106.2
85	54.6	43.7	65.5
99	60.9	48.7	73.1

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:54 PM



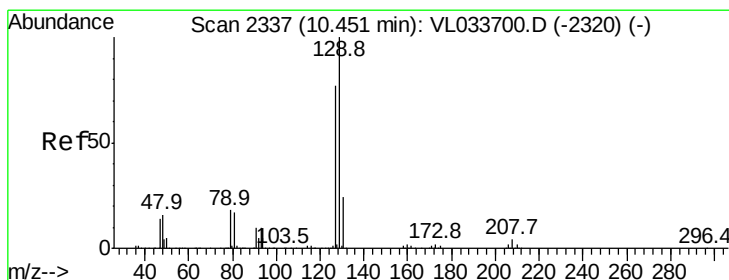
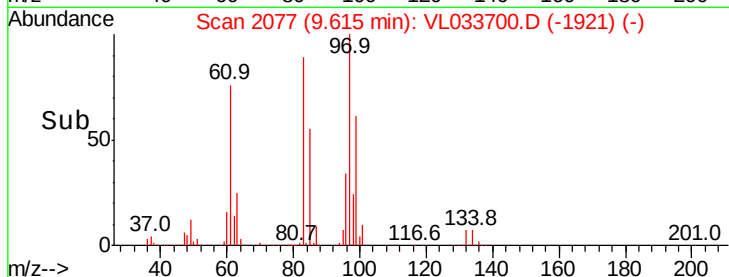
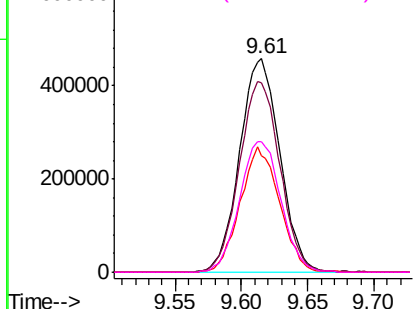
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

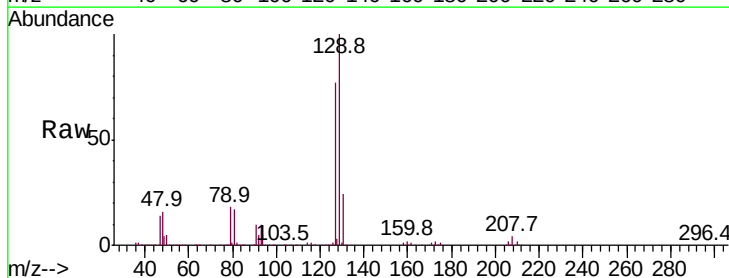
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 11.015 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

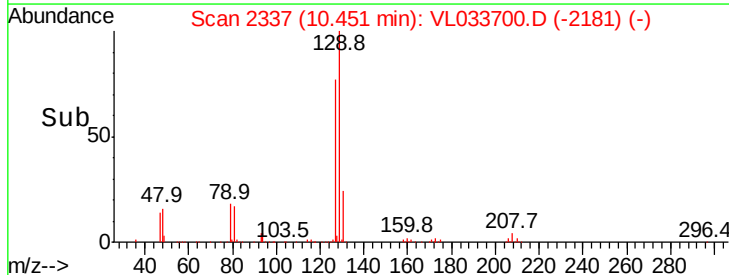
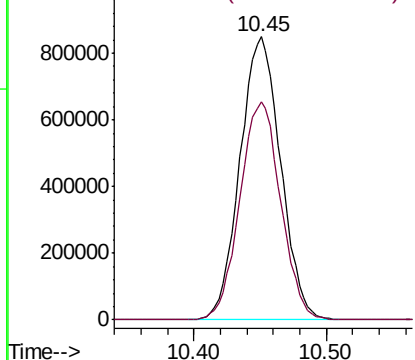
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.6	116.0

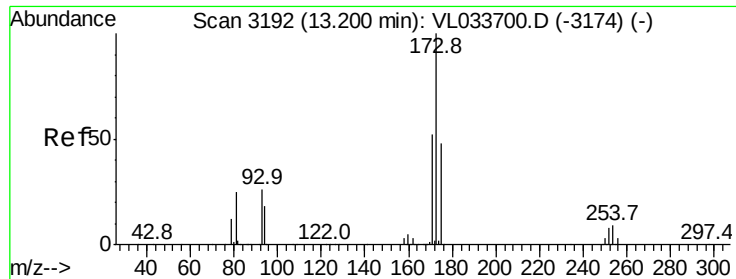


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.770 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 1514704

Ion Ratio Lower Upper

173 100

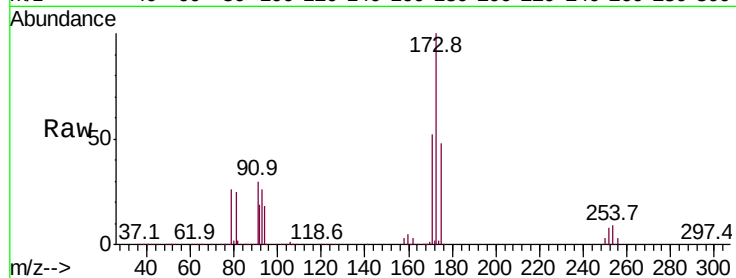
175 48.3 38.6 58.0

171 51.9 41.5 62.3

Manual Integrations
APPROVED

MMDadoda

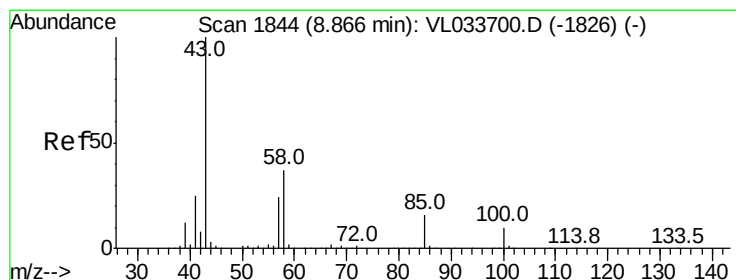
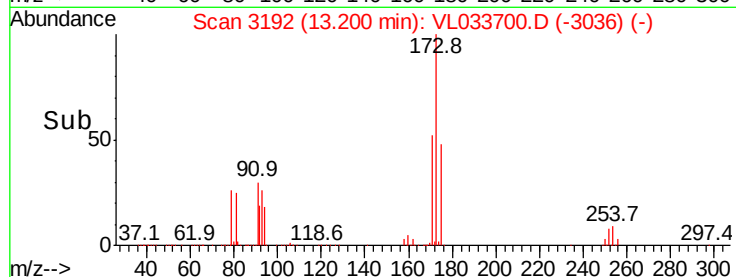
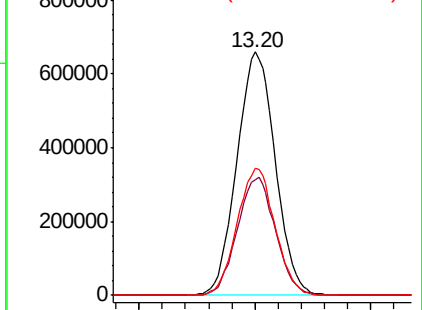
5/20/2019 12:04:54 PM



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: 10.434 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VL033700.D

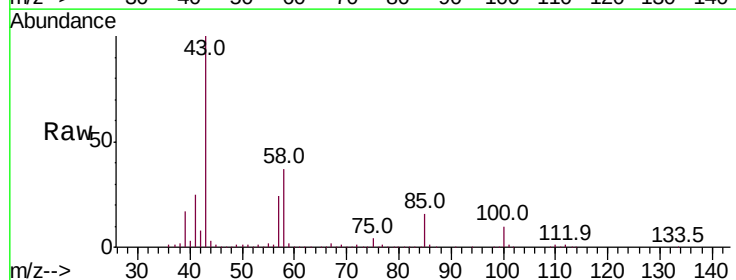
Acq: 17 May 2019 1:59

Tgt Ion: 43 Resp: 2538903

Ion Ratio Lower Upper

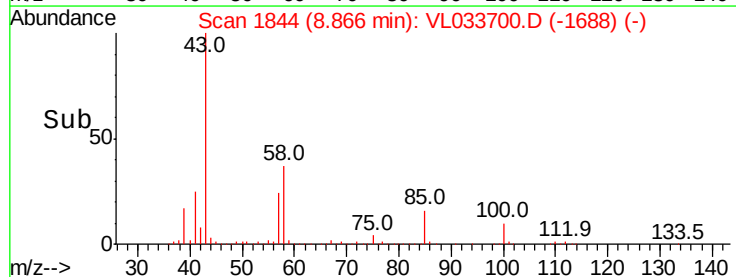
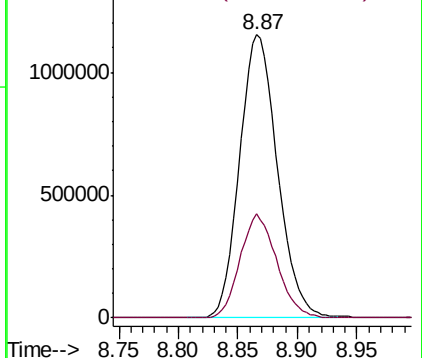
43 100

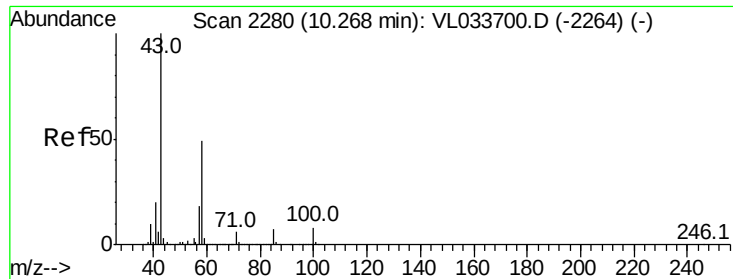
58 35.7 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





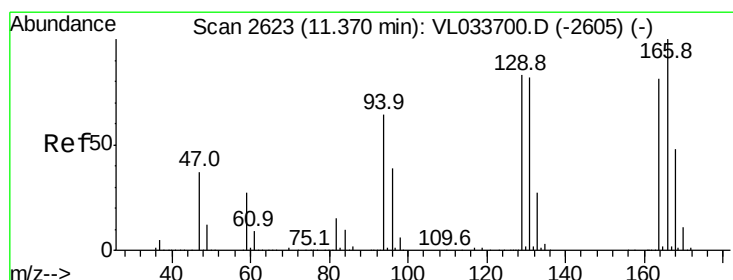
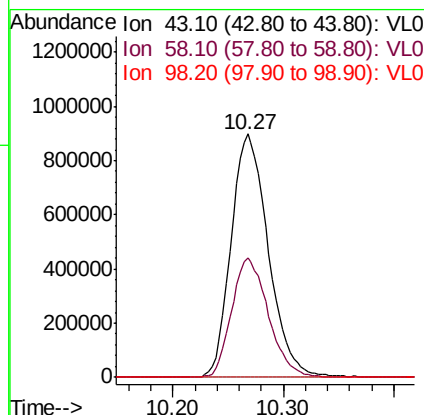
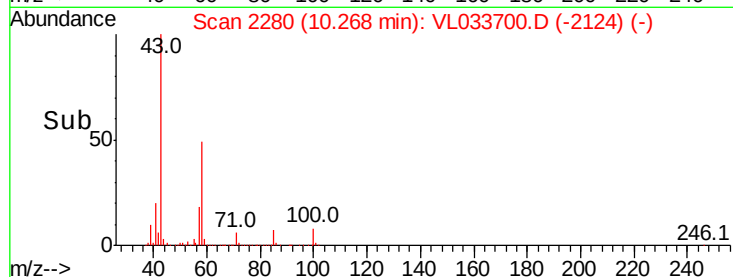
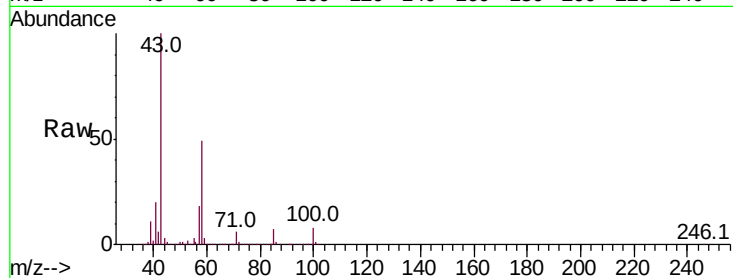
#51
2-Hexanone
Concen: 11.067 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.4	38.7	58.1
98	0.3	0.2	0.4

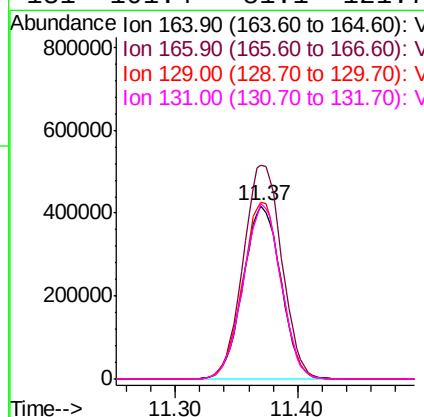
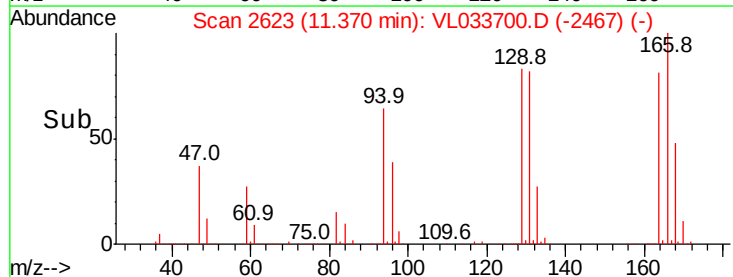
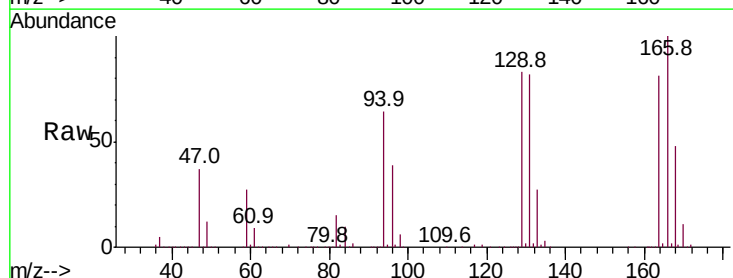
Manual Integrations
APPROVED

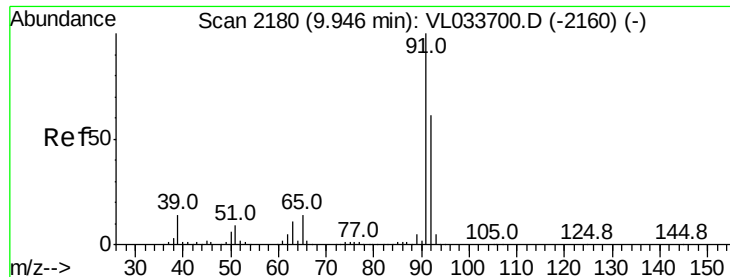
MMDadoda
5/20/2019 12:04:54 PM



#52
Tetrachloroethene
Concen: 11.134 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	98.9	148.3
129	102.2	81.8	122.6
131	101.4	81.1	121.7





#53

Toluene

Concen: 11.194 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2741546

Ion Ratio Lower Upper

91 100

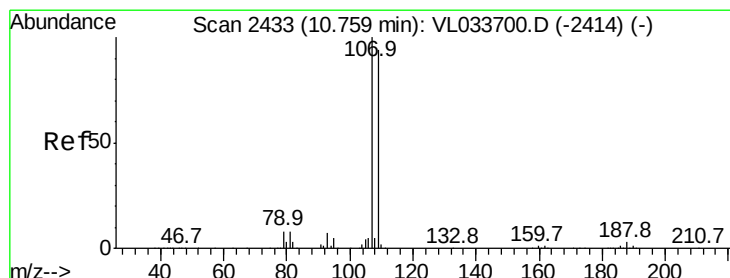
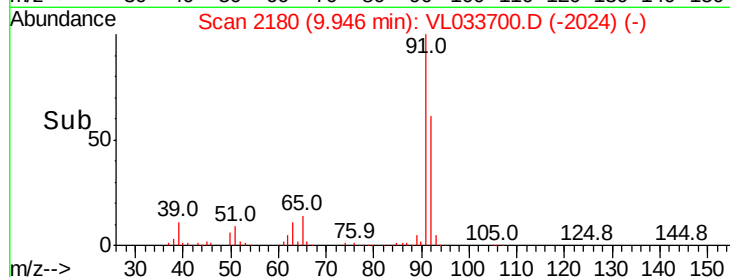
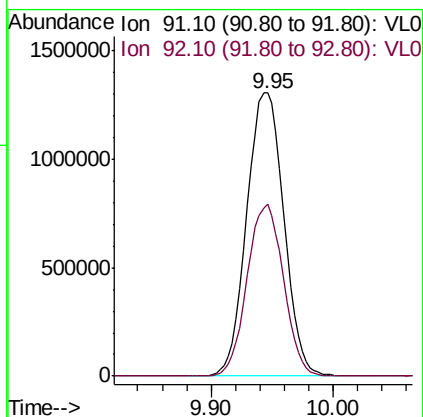
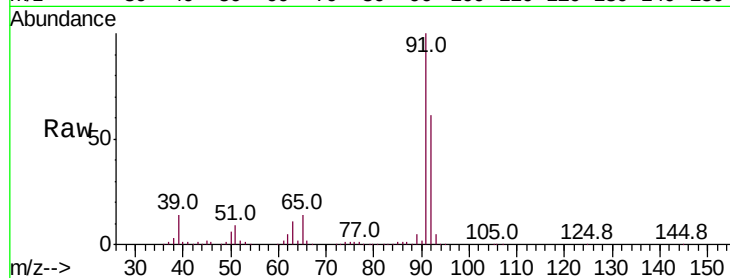
92 59.5 47.6 71.4

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#54

1,2-Dibromoethane

Concen: 10.584 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033700.D

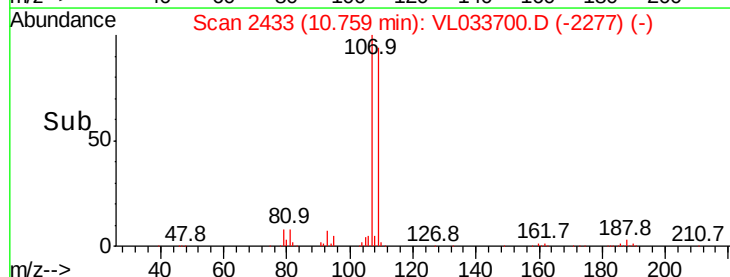
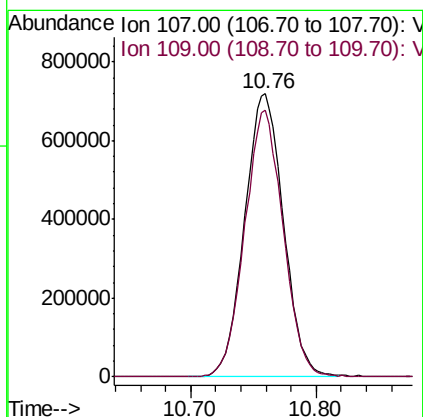
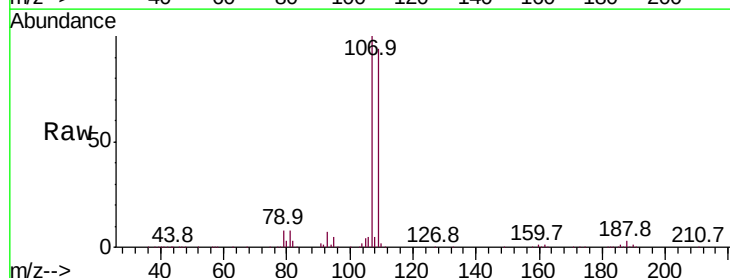
Acq: 17 May 2019 1:59

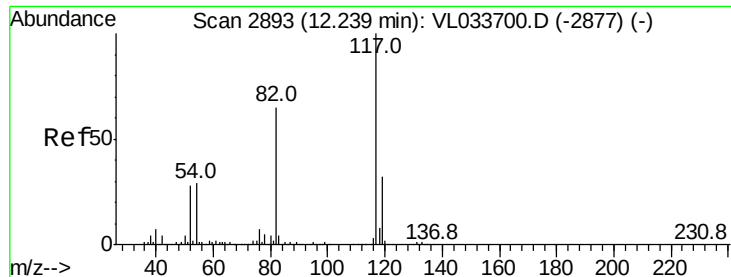
Tgt Ion: 107 Resp: 1546099

Ion Ratio Lower Upper

107 100

109 94.0 75.2 112.8





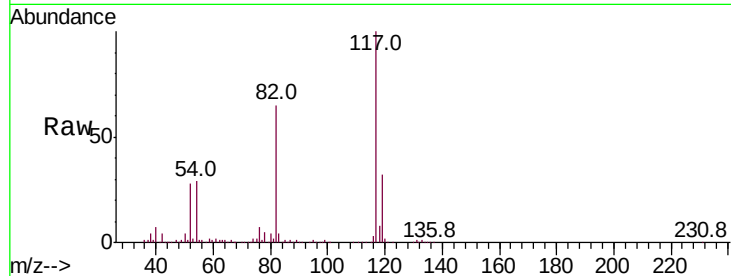
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

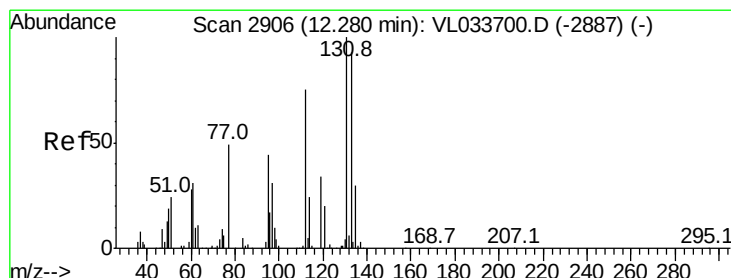
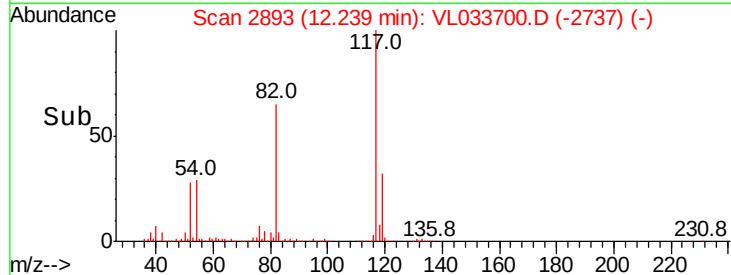
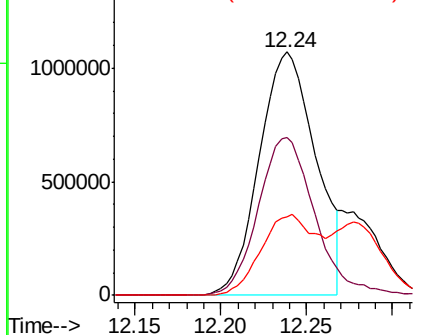
Tot Ion:117 Resp: 2449943
Ion Ratio Lower Upper
117 100
82 65.3 49.4 74.0
119 32.9 24.9 37.3

Manual Integrations
APPROVED

MMDadoda
5/20/2019 12:04:54 PM

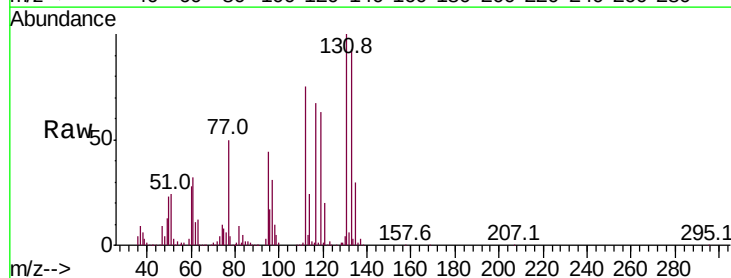


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

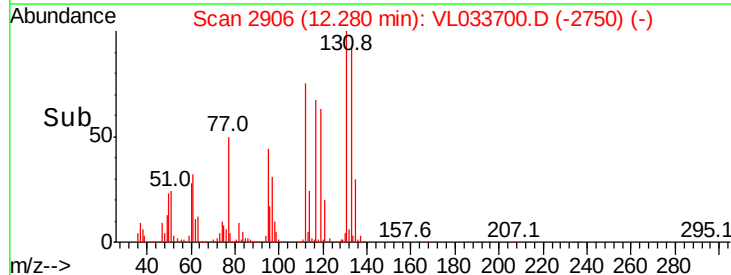
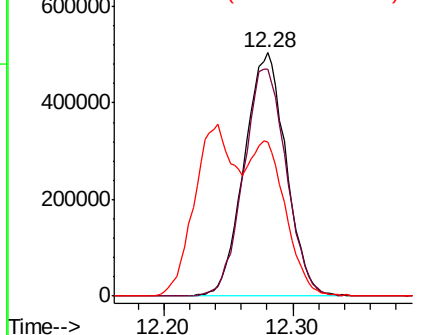


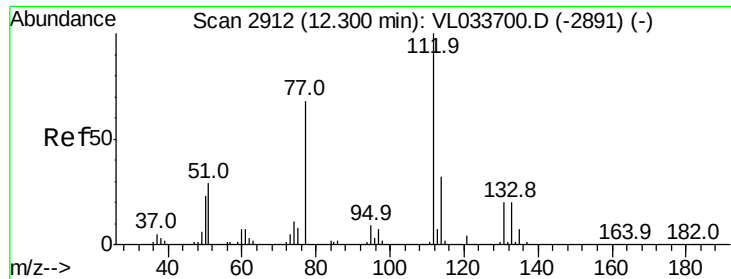
#56
1,1,1,2-Tetrachloroethane
Concen: 9.956 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion:131 Resp: 1134286
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 52.3 49.0 73.4



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





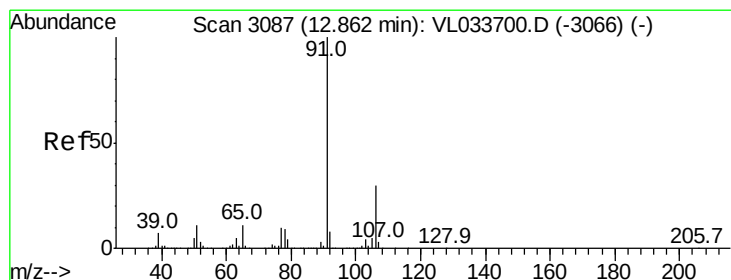
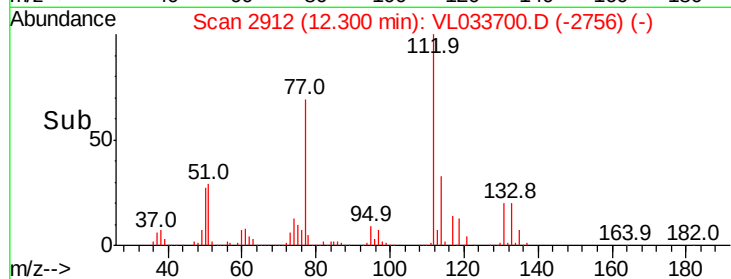
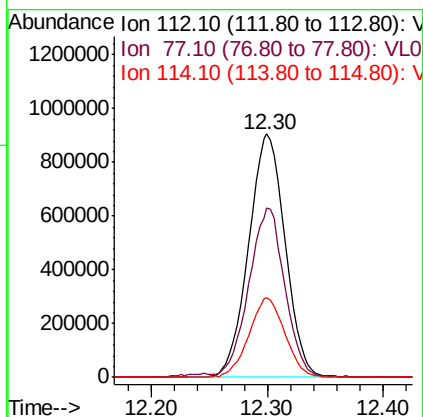
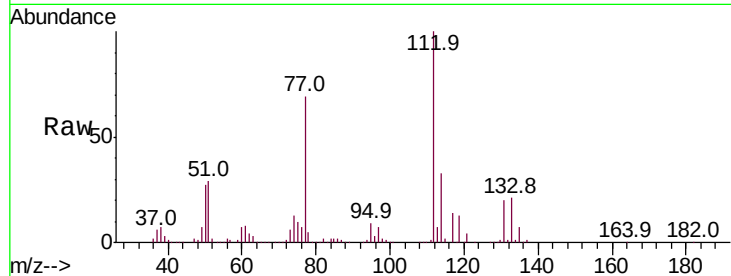
#57
Chlorobenzene
Concen: 9.767 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:112 Resp: 1983907
Ion Ratio Lower Upper
112 100
77 69.2 55.4 83.0
114 32.5 29.3 35.8

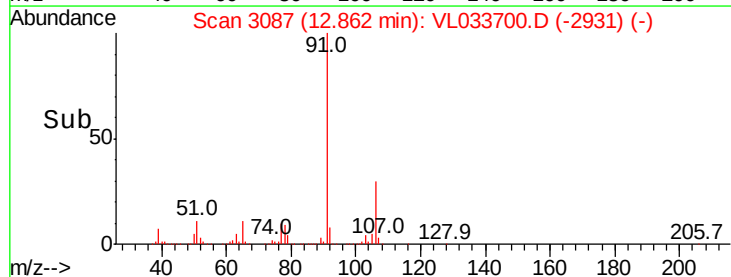
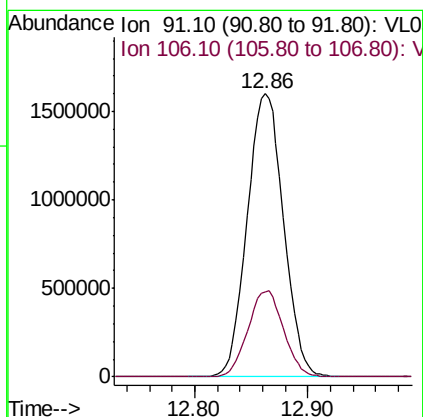
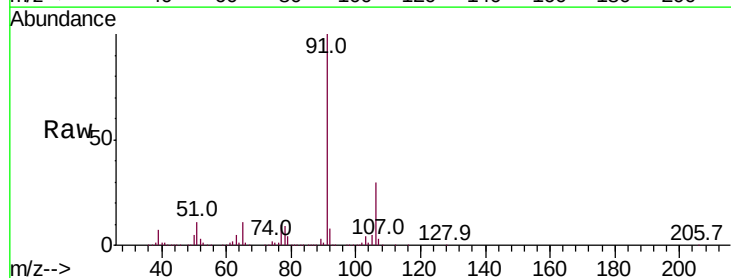
Manual Integrations
APPROVED

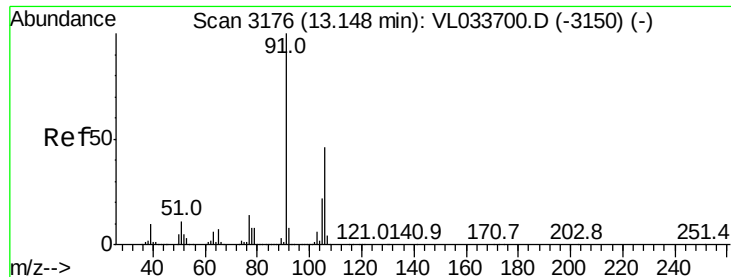
MMDadoda
5/20/2019 12:04:54 PM



#58
Ethyl Benzene
Concen: 11.063 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 91 Resp: 3569532
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9





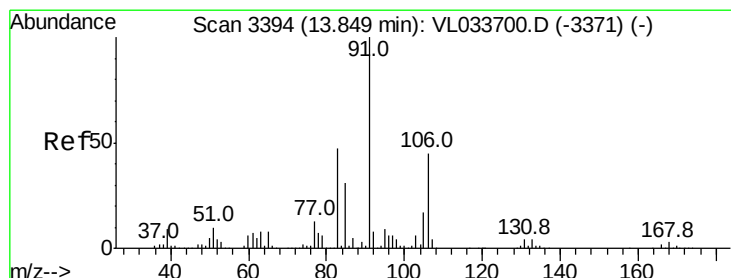
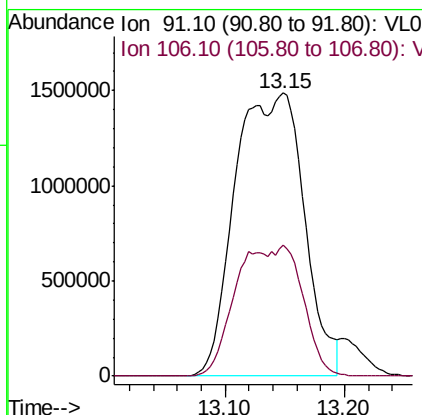
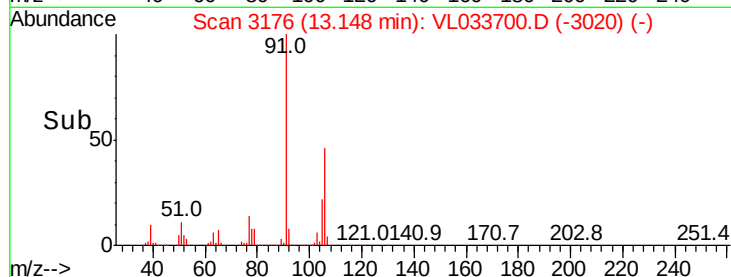
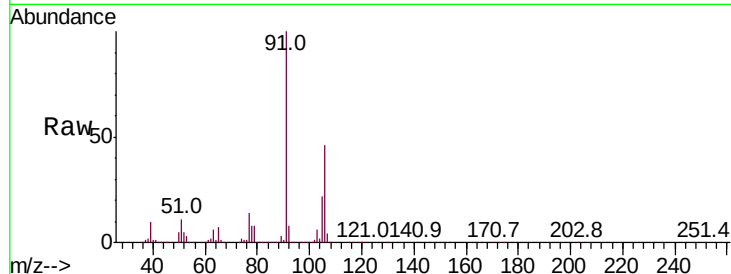
#59
m/p-Xylene
Concen: 20.989 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5966724
Ion Ratio Lower Upper
91 100
106 44.6 35.8 53.6

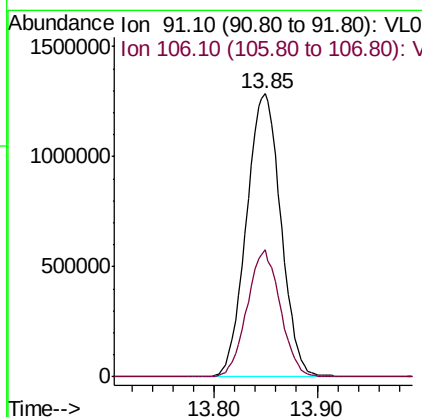
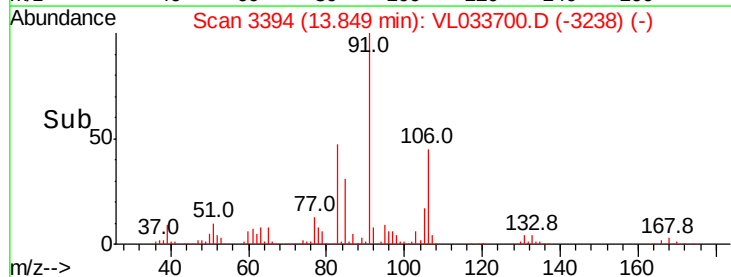
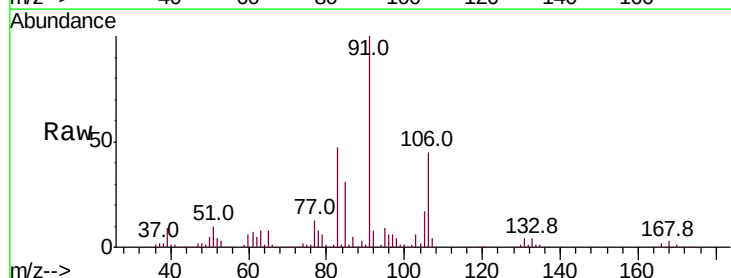
Manual Integrations
APPROVED

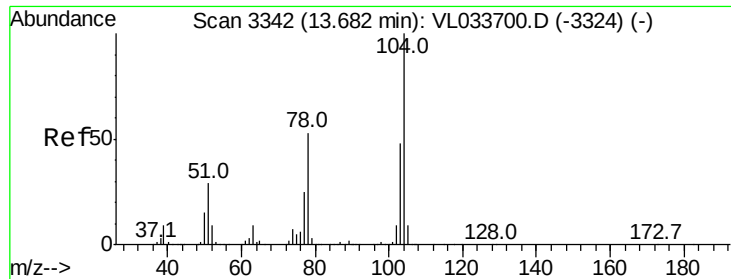
MMDadoda
5/20/2019 12:04:54 PM



#60
o-Xylene
Concen: 10.386 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 91 Resp: 2979946
Ion Ratio Lower Upper
91 100
106 43.3 21.6 64.8





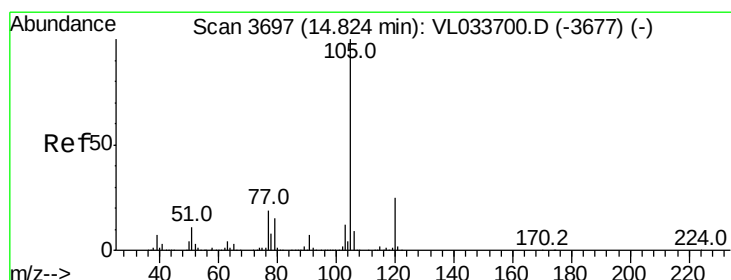
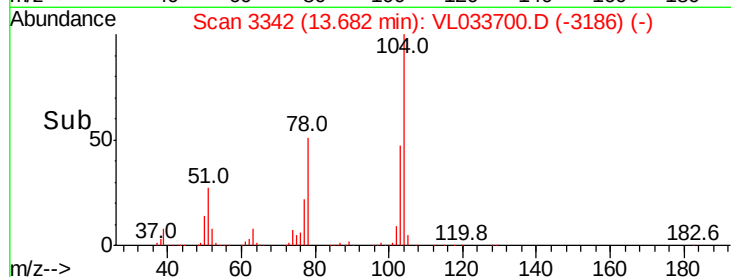
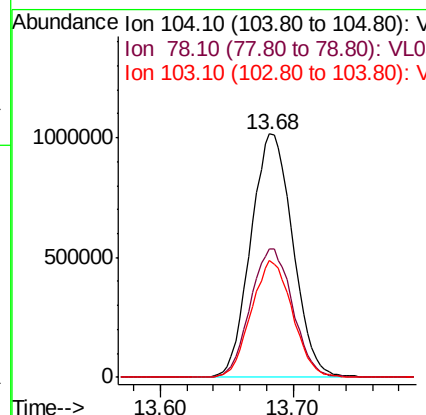
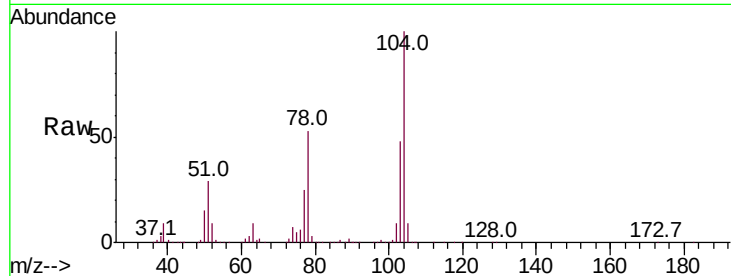
#61
Stvrene
Concen: 11.678 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:104 Resp: 2236579
Ion Ratio Lower Upper
104 100
78 53.4 42.6 64.0
103 47.2 37.8 56.6

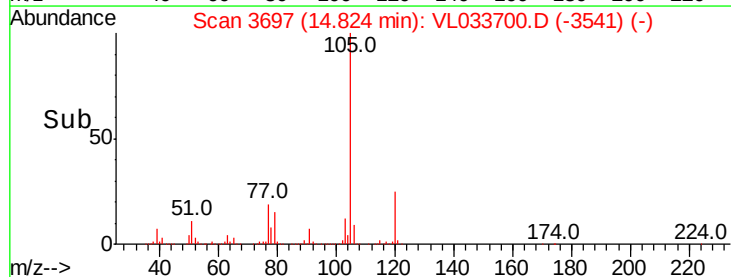
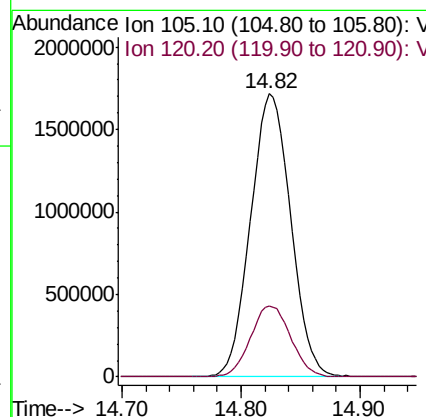
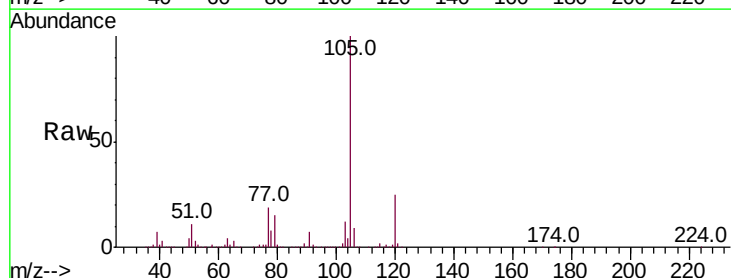
Manual Integrations
APPROVED

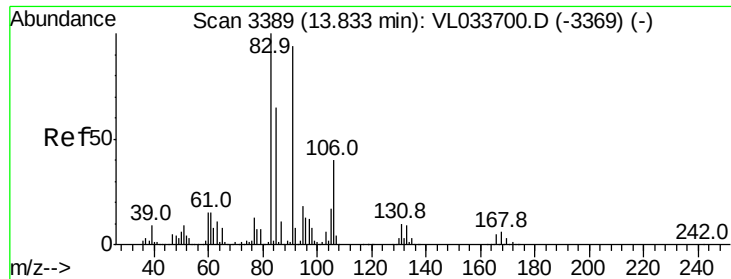
MMDadoda
5/20/2019 12:04:54 PM



#62
Isopropylbenzene
Concen: 10.203 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion:105 Resp: 4005063
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1





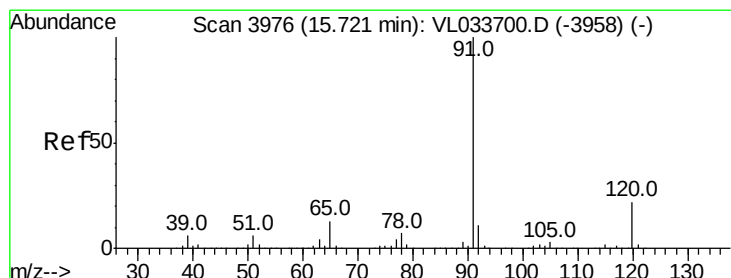
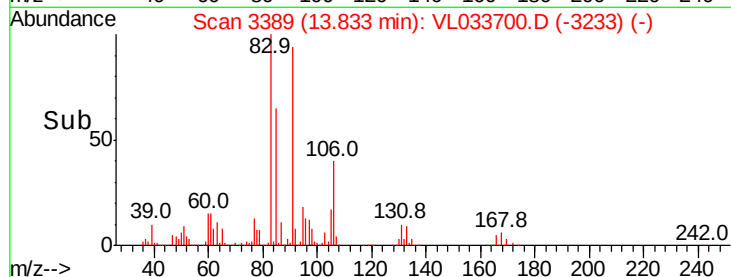
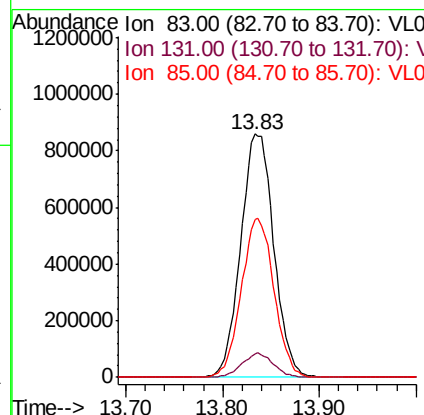
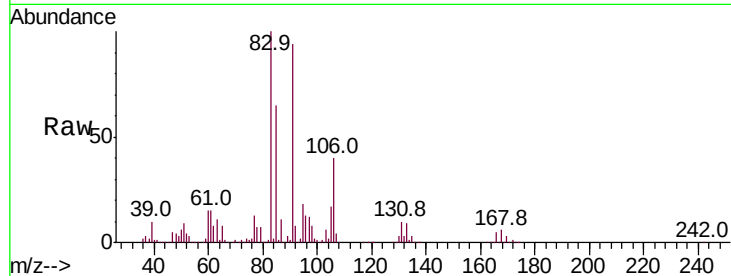
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.812 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	2042256
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.3	96.9

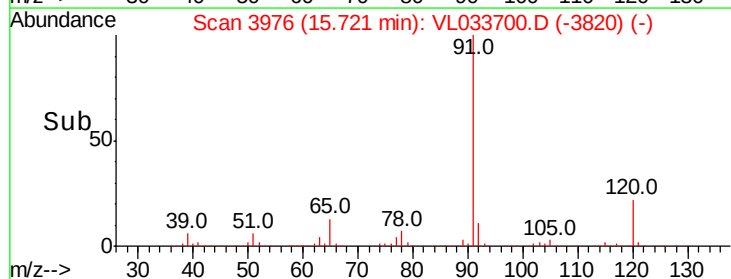
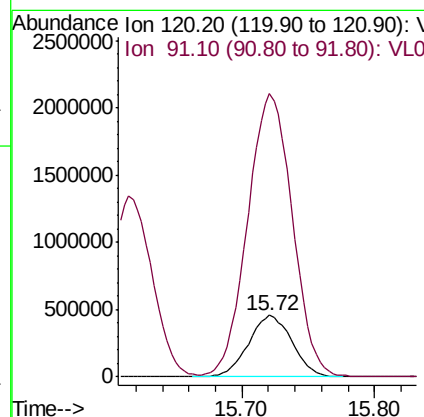
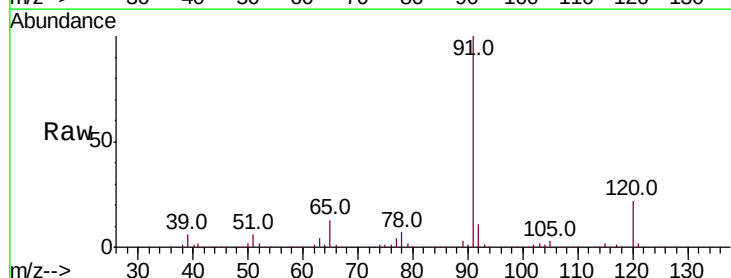
Manual Integrations
 APPROVED

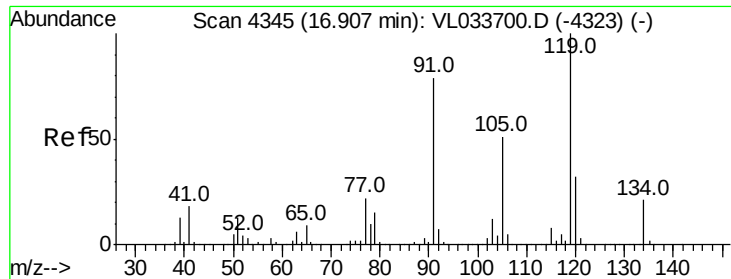
MMDadoda
 5/20/2019 12:04:54 PM



#64
 n-propylbenzene
 Concen: 10.310 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Tgt Ion	120	Resp	1043780
Ion Ratio	100	Lower	Upper
120	100		
91	473.5	379.1	568.7





#65

tert-Butylbenzene

Concen: 10.287 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3703037

Ion Ratio Lower Upper

119 100

91 81.6 65.3 97.9

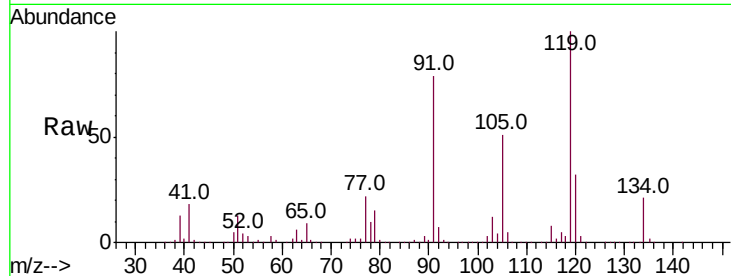
134 19.6 15.7 23.5

Manual Integrations

APPROVED

MMDadoda

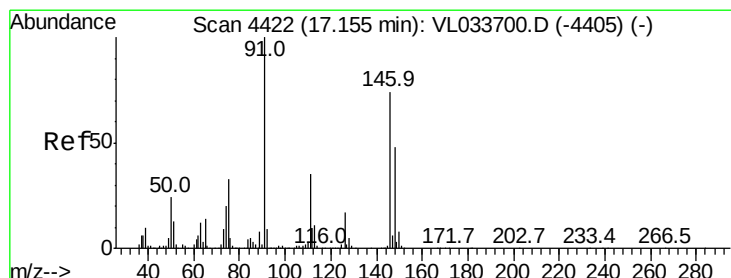
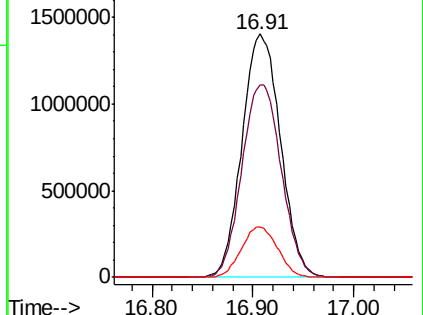
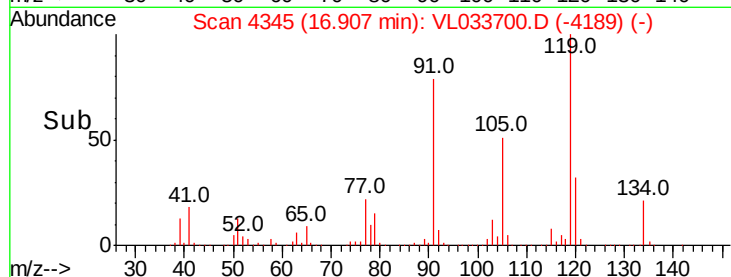
5/20/2019 12:04:54 PM



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: 12.520 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

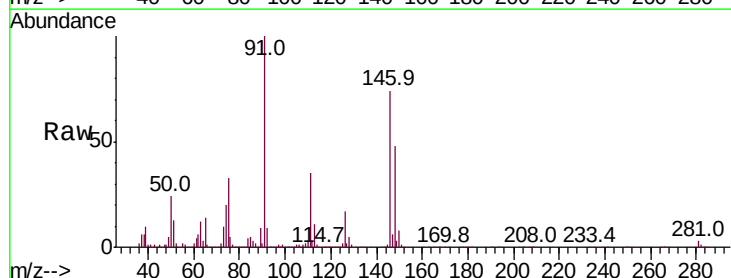
Tgt Ion: 91 Resp: 2062995

Ion Ratio Lower Upper

91 100

126 16.8 13.5 20.3

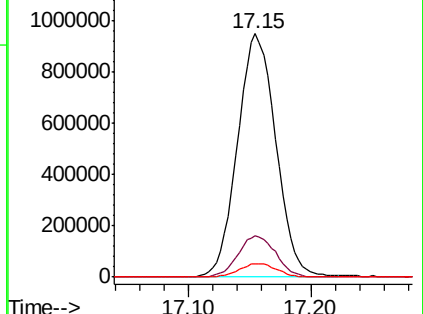
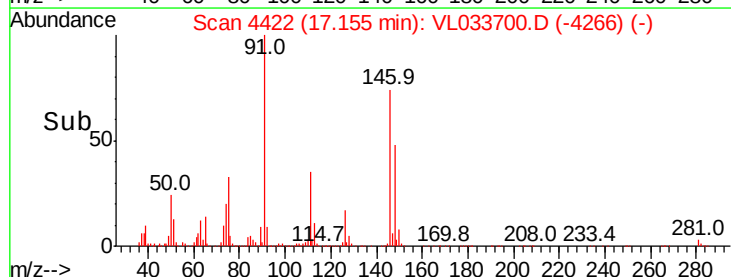
128 5.5 4.3 6.5

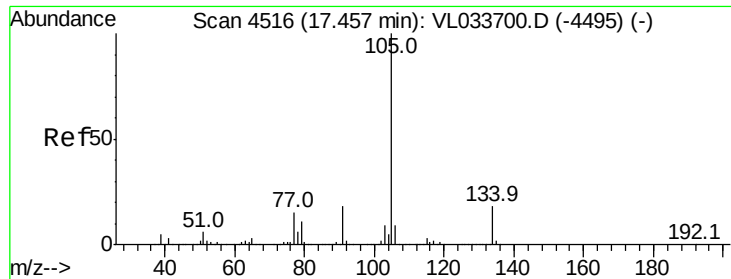


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.259 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 5140743

Ion Ratio Lower Upper

105 100

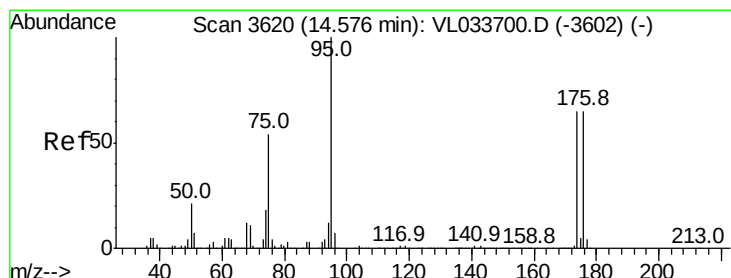
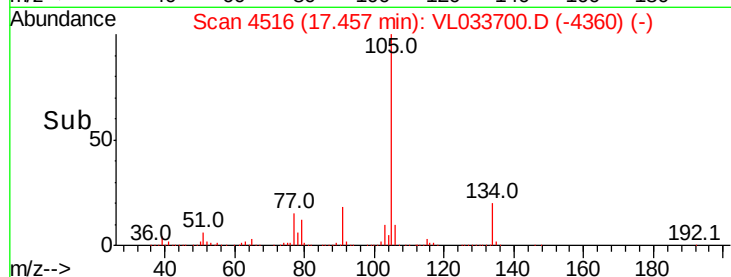
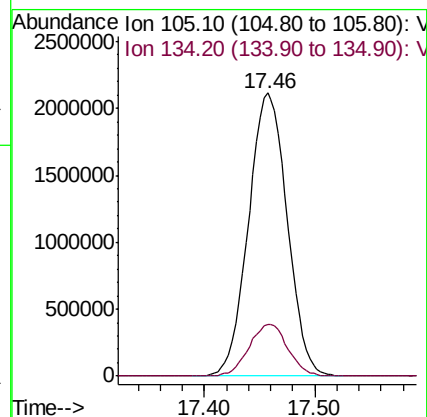
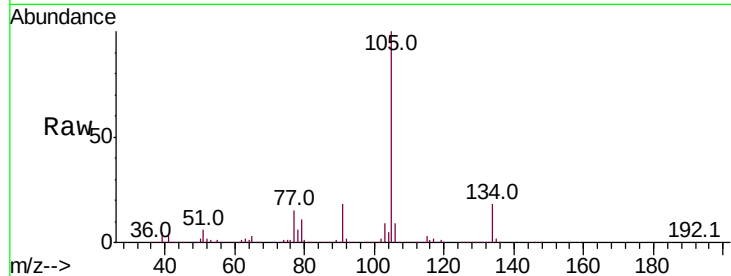
134 18.3 14.6 22.0

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.877 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

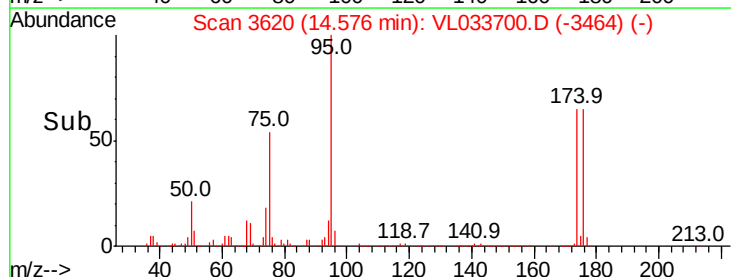
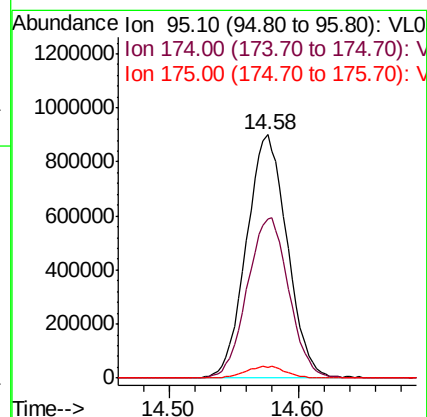
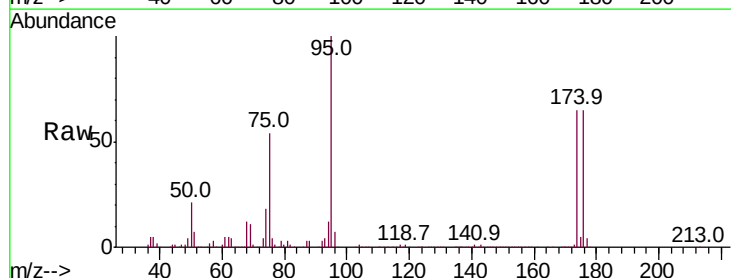
Tgt Ion: 95 Resp: 1983802

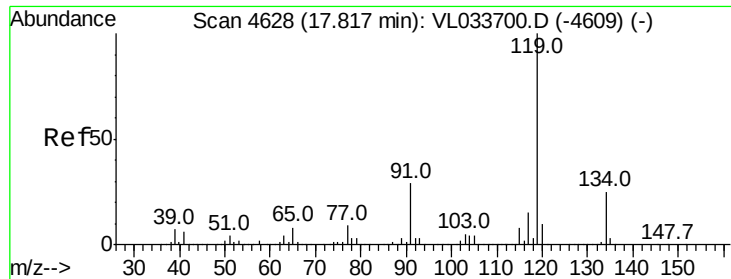
Ion Ratio Lower Upper

95 100

174 67.2 53.9 80.9

175 4.8 3.8 5.8





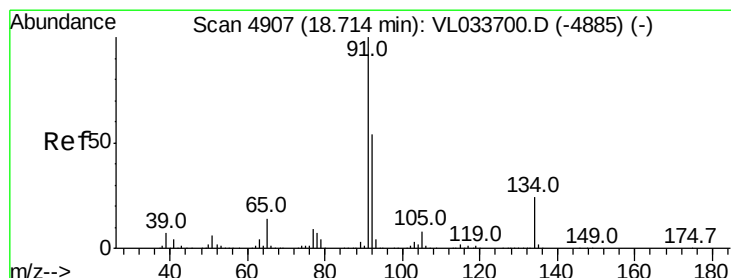
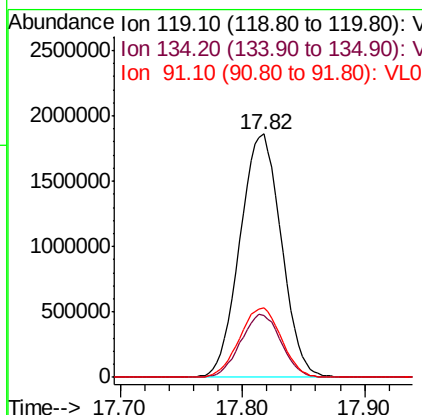
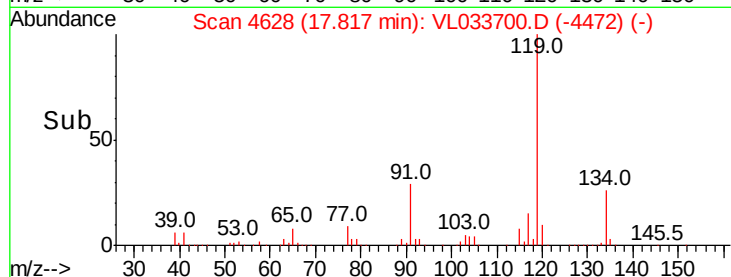
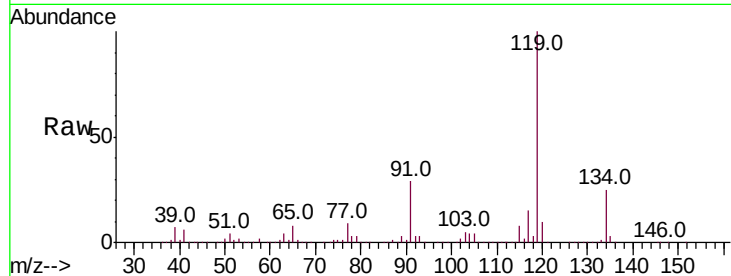
#69
p-Isopropyltoluene
Concen: 10.568 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 119 Resp: 4367924
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.1 23.1 34.7

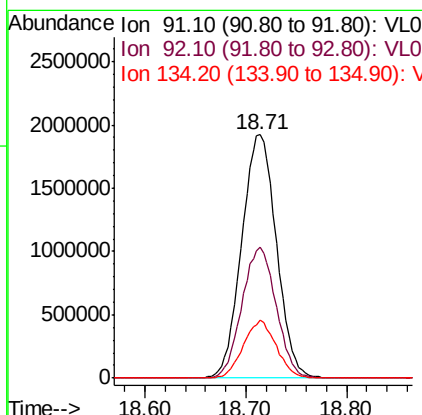
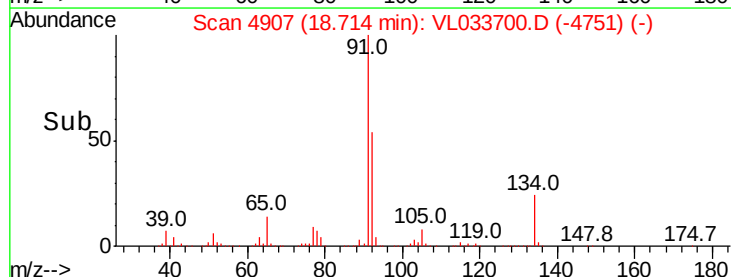
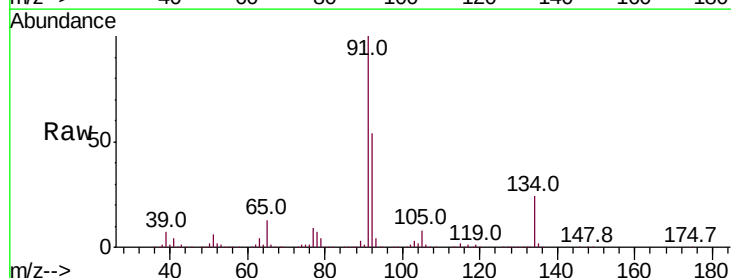
Manual Integrations
APPROVED

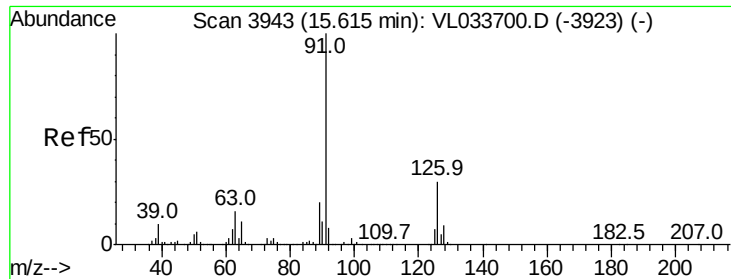
MMDadoda
5/20/2019 12:04:54 PM



#70
n-Butylbenzene
Concen: 10.481 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion: 91 Resp: 4577977
Ion Ratio Lower Upper
91 100
92 53.2 42.6 63.8
134 22.6 18.1 27.1





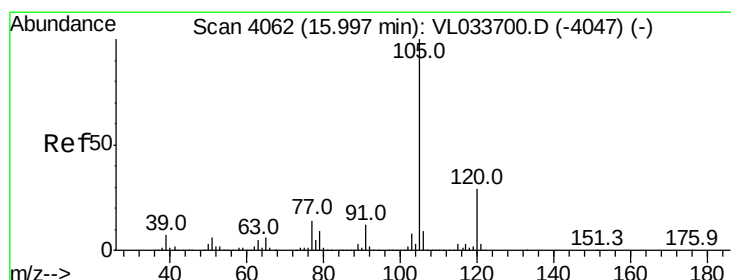
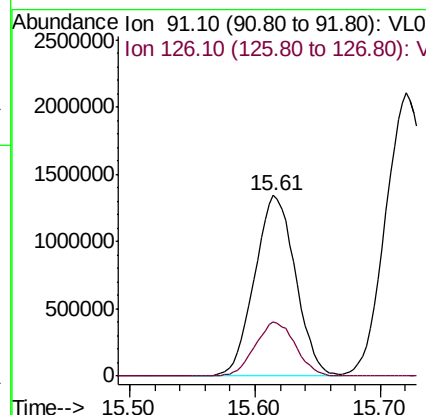
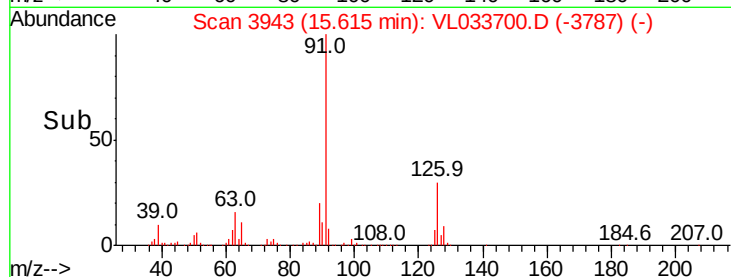
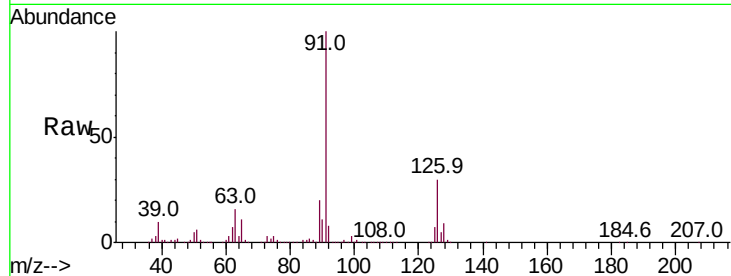
#71
 2-Chlorotoluene
 Concen: 10.526 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 3049177
 Ion Ratio Lower Upper
 91 100
 126 29.9 12.0 47.8

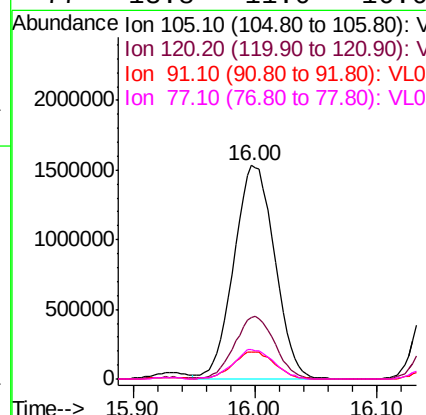
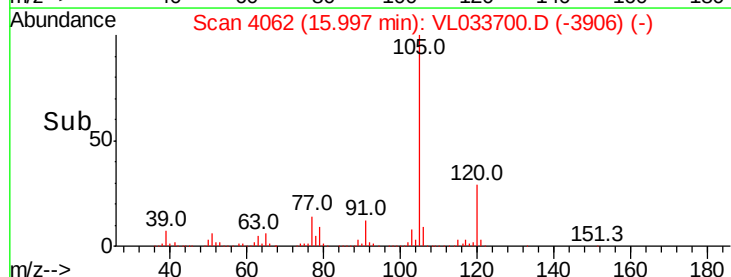
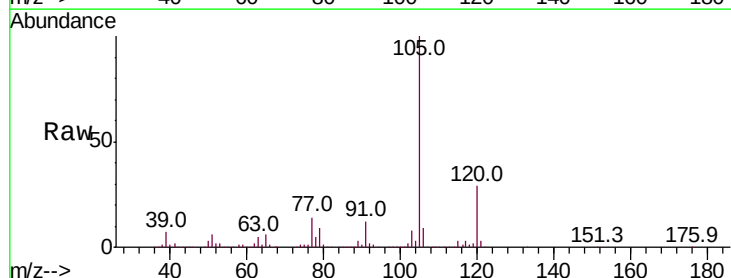
Manual Integrations
 APPROVED

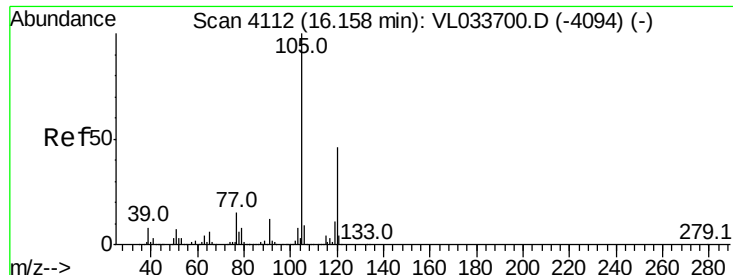
MMDadoda
 5/20/2019 12:04:54 PM



#72
 4-Ethyltoluene
 Concen: 10.543 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Tgt Ion: 105 Resp: 3551992
 Ion Ratio Lower Upper
 105 100
 120 28.9 23.1 34.7
 91 13.0 10.4 15.6
 77 13.8 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 10.306 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3352990

Ion Ratio Lower Upper

105 100

120 46.2

37.0

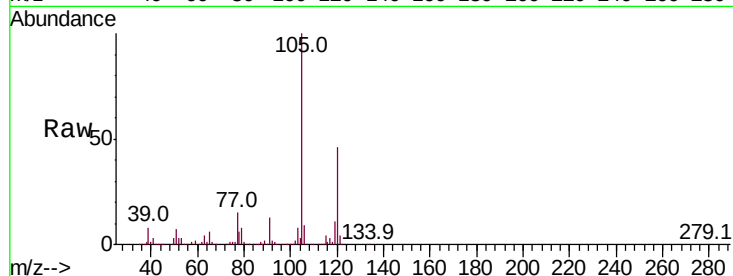
55.4

Manual Integrations

APPROVED

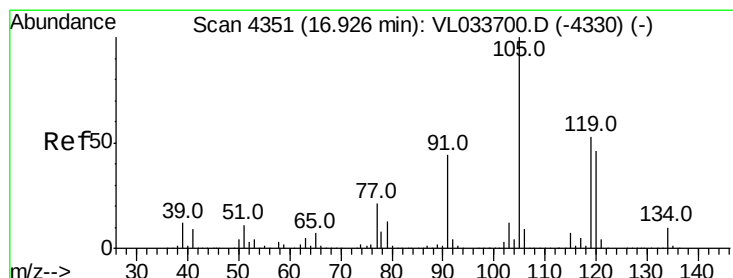
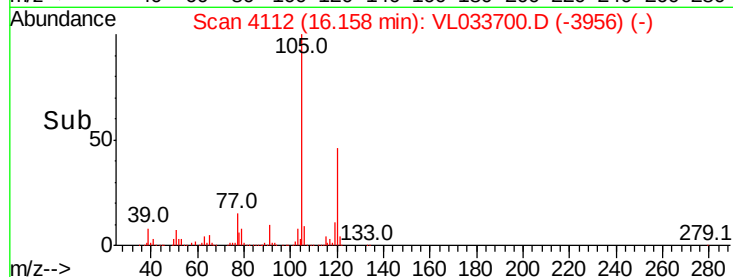
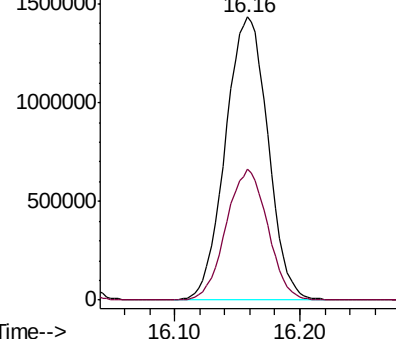
MMDadoda

5/20/2019 12:04:54 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.849 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Tgt Ion:105 Resp: 3571952

Ion Ratio Lower Upper

105 100

120 46.0

36.8

55.2

91 44.2

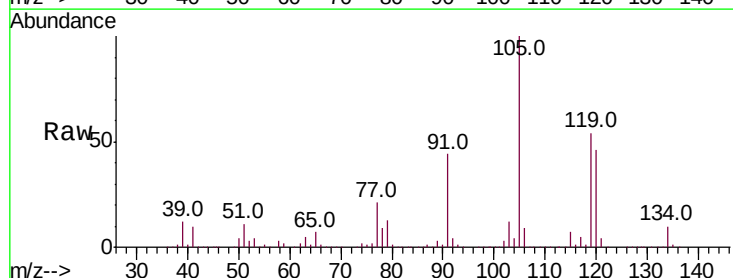
35.4

53.0

77 21.0

16.8

25.2

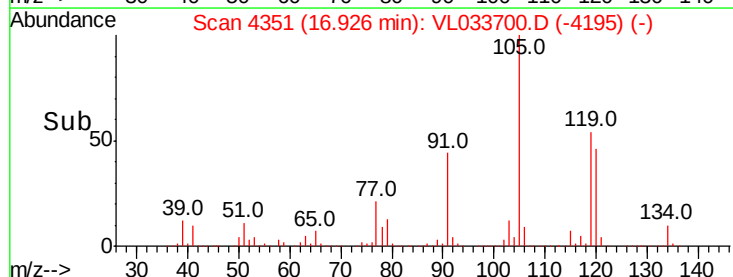
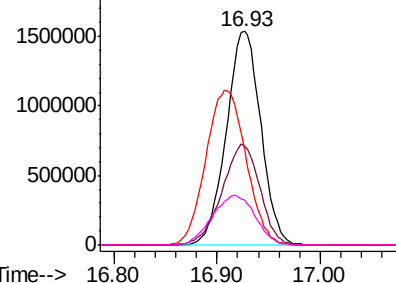


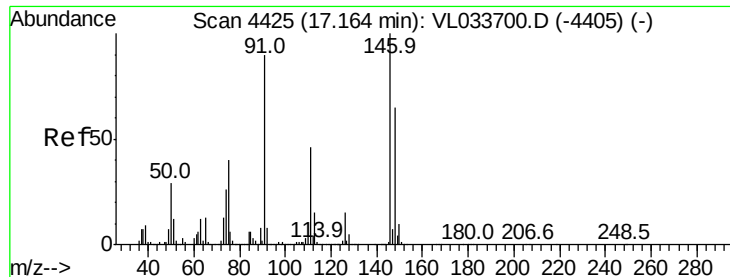
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.540 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2082590

Ion Ratio Lower Upper

146 100

111 45.9 22.9 68.8

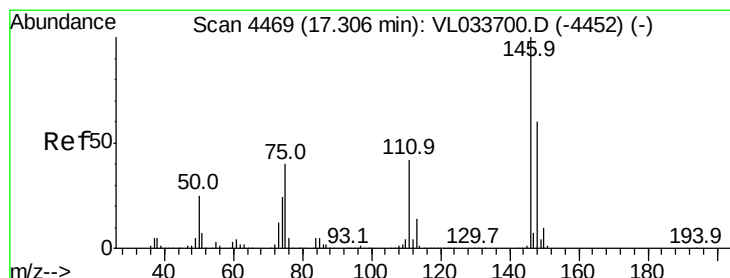
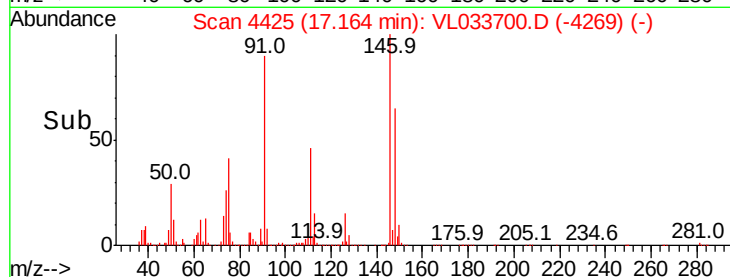
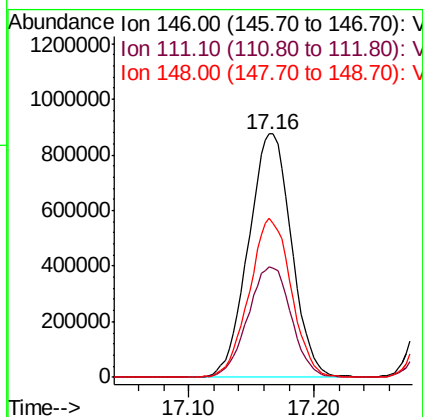
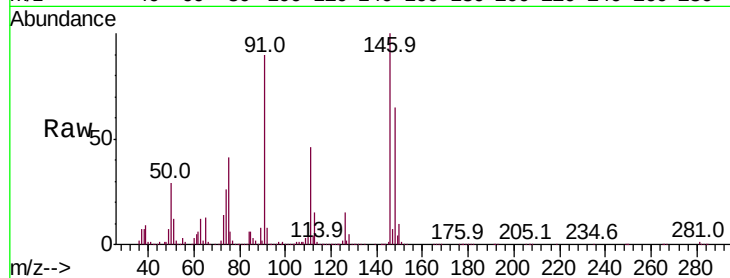
148 64.1 32.0 96.2

Manual Integrations

APPROVED

MMDadoda

5/20/2019 12:04:54 PM



#76

1,4-Dichlorobenzene

Concen: 10.017 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

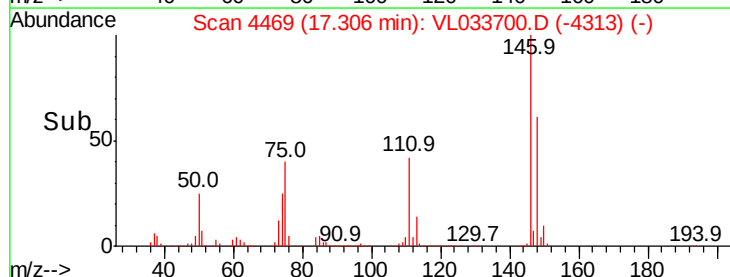
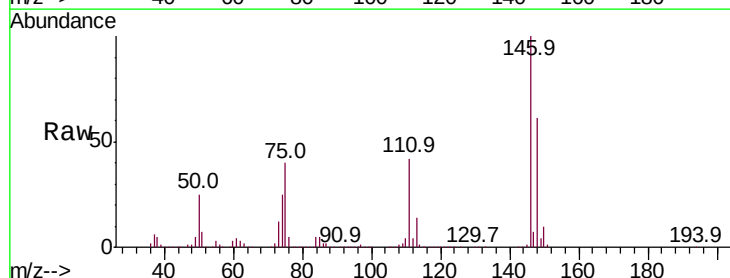
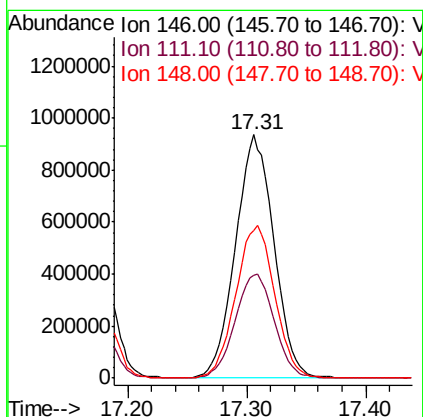
Tgt Ion:146 Resp: 2075174

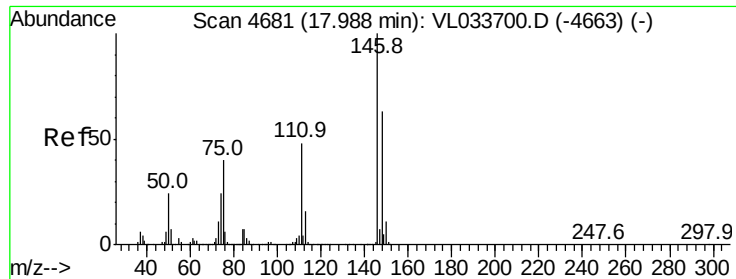
Ion Ratio Lower Upper

146 100

111 43.9 21.9 65.8

148 64.2 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.928 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2011834

Ion Ratio Lower Upper

146 100

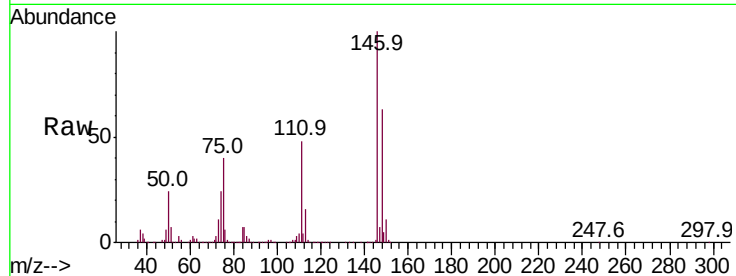
111 47.0 23.5 70.5

148 64.2 32.1 96.3

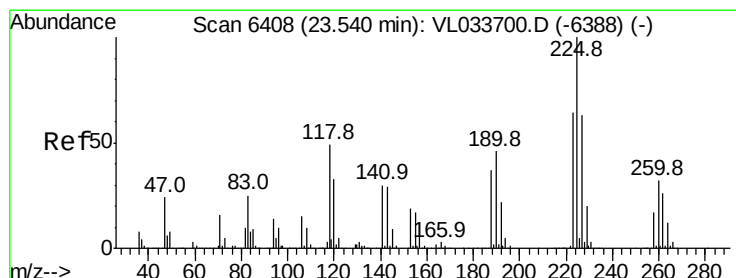
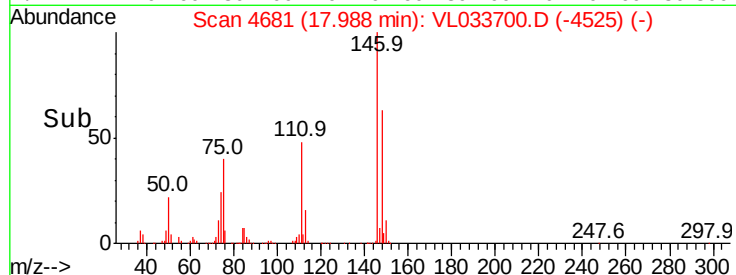
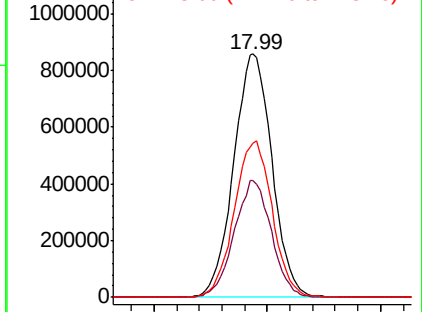
Manual Integrations
APPROVED

MMDadoda

5/20/2019 12:04:54 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.593 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.00 min

Lab File: VL033700.D

Acq: 17 May 2019 1:59

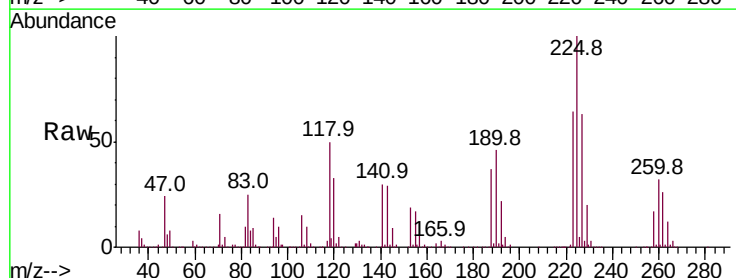
Tgt Ion:225 Resp: 1380773

Ion Ratio Lower Upper

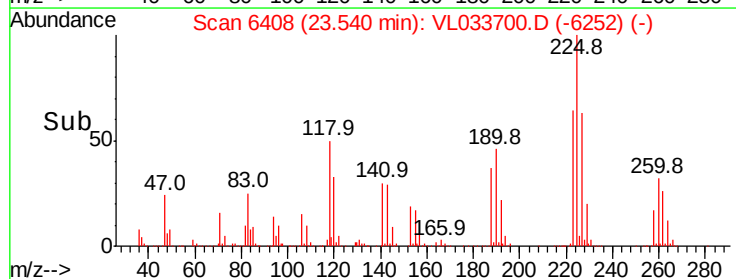
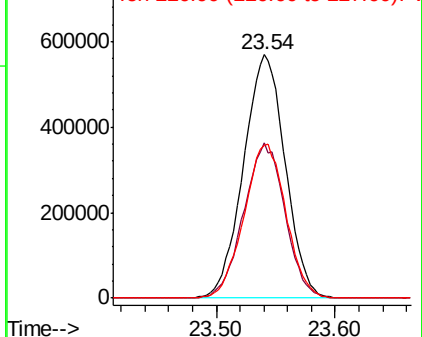
225 100

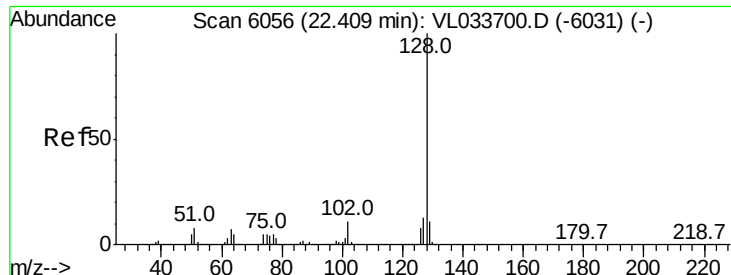
223 62.8 50.2 75.4

227 63.4 50.7 76.1



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





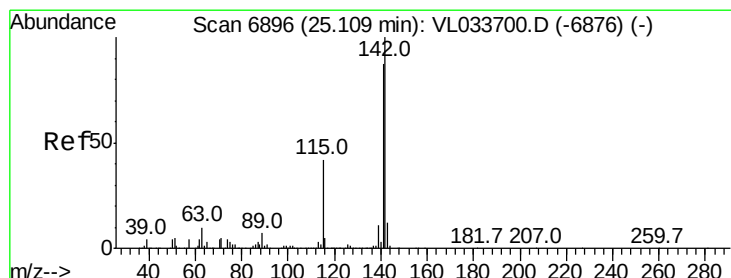
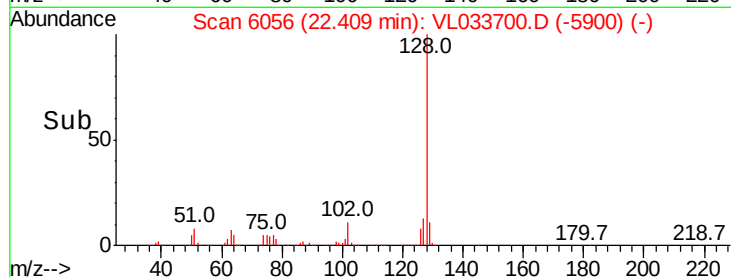
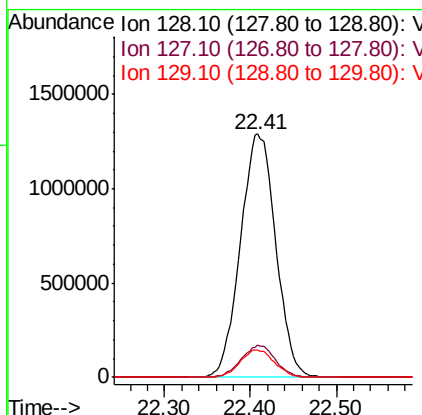
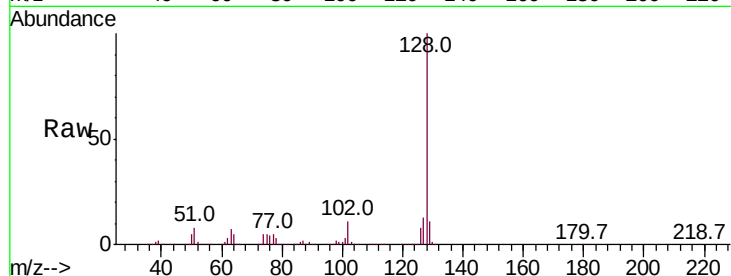
#79
Naphthalene
Concen: 11.115 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:128 Resp: 3683380
Ion Ratio Lower Upper
128 100
127 13.3 10.6 16.0
129 11.1 8.9 13.3

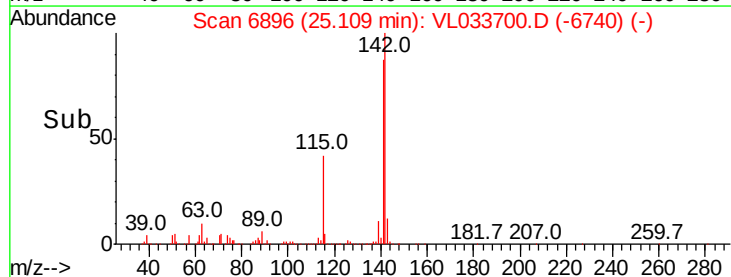
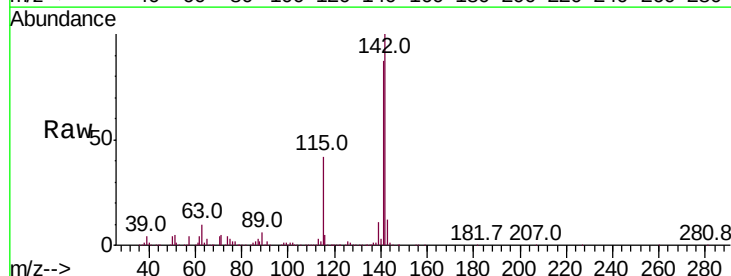
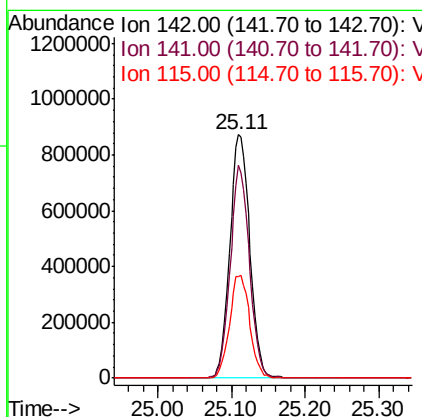
Manual Integrations
APPROVED

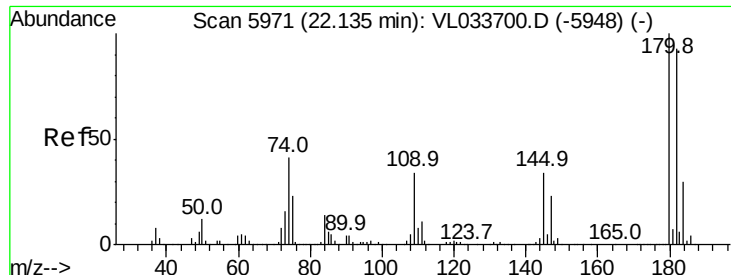
MMDadoda
5/20/2019 12:04:54 PM



#80
Naphthalene, 2-methyl-
Concen: 12.961 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.00 min
Lab File: VL033700.D
Acq: 17 May 2019 1:59

Tgt Ion:142 Resp: 1639755
Ion Ratio Lower Upper
142 100
141 83.9 67.2 100.8
115 42.7 34.1 51.1





#81
 1,2,4-Trichlorobenzene
 Concen: 10.352 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033700.D
 Acq: 17 May 2019 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:54 PM

