

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026212.D
 Acq On : 20 Oct 2015 14:43
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:05 PM

Quant Time: Oct 20 15:24:36 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 15:24:36 2015
 QLast Update : Tue Oct 20 14:37:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.64	49	546260	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.31	114	1757093	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	2371584m	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.27	95	1701138	9.25	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	1414279	12.41	ppbv	100
3) Chlorodifluoromethane	3.56	51	941176	13.80	ppbv	99
4) Chloromethane	3.73	50	543602	14.71	ppbv	100
5) Vinyl Chloride	3.87	62	575803	14.78	ppbv	99
6) Bromomethane	4.13	94	410403	14.66	ppbv	99
7) Chloroethane	4.22	64	242607	14.78	ppbv	97
8) Dichlorotetrafluoroethane	3.79	85	1376963	14.42	ppbv	100
9) Propene	3.58	41	455216	14.28	ppbv	98
10) Heptane	9.34	43	1536086	14.26	ppbv	100
11) Trichlorofluoromethane	4.68	101	1601034	14.72	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1073290	14.40	ppbv	99
13) Ethanol	4.31	45	33639	6.42	ppbv	99
14) Bromoethene	4.43	108	462906	14.69	ppbv	99
15) Acetone	4.58	43	980657	12.20	ppbv	99
16) 1,3-Butadiene	3.95	39	523616	14.84	ppbv	99
17) tert-Butyl alcohol	5.10	59	947672	18.80	ppbv	99
18) 1,1-Dichloroethene	5.07	96	496300	14.63	ppbv	93
19) Isopropyl Alcohol	4.73	45	438212	13.99	ppbv	90
20) Methylene Chloride	5.14	84	453298	14.21	ppbv	99
21) Allyl Chloride	5.21	41	764201	14.57	ppbv	97
22) trans-1,2-Dichloroethene	5.75	96	650997	15.04	ppbv	99
23) Vinyl Acetate	5.97	43	2143099	14.53	ppbv	99
24) 1,1-Dichloroethane	5.90	63	1345371	14.66	ppbv	100
25) Ethyl Acetate	6.65	43	2149511	14.51	ppbv	99
26) Hexane	6.64	57	1059959	14.24	ppbv	96
27) Carbon Disulfide	5.37	76	1420269	14.94	ppbv	99
28) Methyl tert-Butyl Ether	5.93	73	1984815	15.05	ppbv	98
29) Chloroform	6.73	83	1603035	15.04	ppbv	99
30) Cyclohexane	8.26	84	1083105	14.67	ppbv	98
31) cis-1,2-Dichloroethene	6.50	61	1013207	15.11	ppbv	99
32) 1,1,1-Trichloroethane	7.58	97	1720675	14.54	ppbv	100
34) 2-Butanone	6.18	43	1360969	13.65	ppbv	99
35) Carbon Tetrachloride	8.15	117	1794312	13.62	ppbv	98
36) Benzene	8.01	78	2416915	13.62	ppbv	98
37) 1,2-Dichloroethane	7.36	62	1311979	14.46	ppbv	100
38) Trichloroethene	9.05	130	986574	11.52	ppbv	99
39) 1,2-Dichloropropane	8.81	63	853290	13.59	ppbv	99
40) 1,4-Dioxane	9.10	88	117345	9.18	ppbv #	1
41) Tetrahydrofuran	7.10	42	805074	13.92	ppbv	99
42) Bromodichloromethane	9.01	83	1829624	14.06	ppbv	100
43) Methyl Methacrylate	9.25	69	938990	14.56	ppbv	100

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026212.D
 Acq On : 20 Oct 2015 14:43
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:05 PM

Quant Time: Oct 20 15:24:36 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 15:24:36 2015
 QLast Update : Tue Oct 20 14:37:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	3668865	12.80	ppbv	99
45) t-1,3-Dichloropropene	10.63	75	1506117	15.18	ppbv	99
46) cis-1,3-Dichloropropene	10.01	75	1695399	14.49	ppbv	98
47) 1,1,2-Trichloroethane	10.87	97	1096104	14.11	ppbv	98
48) Dibromochloromethane	11.79	129	1822939	14.56	ppbv	100
49) Bromoform	14.80	173	1567586	15.00	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	1928830	14.42	ppbv	100
51) 2-Hexanone	11.60	43	1879463	15.21	ppbv #	98
52) Tetrachloroethene	12.77	164	1111068	11.03	ppbv	99
53) Toluene	11.22	91	3281624	13.75	ppbv	100
54) 1,2-Dibromoethane	12.13	107	1702870	14.22	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.77	131	1282437	11.32	ppbv	89
57) Chlorobenzene	13.80	112	2681765	11.85	ppbv	99
58) Ethyl Benzene	14.40	91	4697757	12.26	ppbv	99
59) m/p-Xylene	14.70	91	7160461	23.83	ppbv	100
60) o-Xylene	15.47	91	3649224	11.61	ppbv	100
61) Styrene	15.29	104	1931379	13.69	ppbv	100
62) Isopropylbenzene	16.53	105	5248429	12.08	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.47	83	2337897	11.19	ppbv	100
64) n-propylbenzene	17.50	120	1492212	12.54	ppbv	98
65) tert-Butylbenzene	18.80	119	4509907	11.36	ppbv	99
66) Benzyl Chloride	19.08	91	2167915	13.54	ppbv	99
67) sec-Butylbenzene	19.39	105	6534442	11.87	ppbv	99
69) p-Isopropyltoluene	19.77	119	5501801	11.97	ppbv	99
70) n-Butylbenzene	20.74	91	5134623	12.19	ppbv	99
71) 2-Chlorotoluene	17.41	91	3932885	12.27	ppbv	99
72) 4-Ethyltoluene	17.80	105	4548460	12.53	ppbv	99
73) 1,3,5-Trimethylbenzene	17.97	105	4216459	12.44	ppbv	100
74) 1,2,4-Trimethylbenzene	18.82	105	3998271	11.34	ppbv	97
75) 1,3-Dichlorobenzene	19.11	146	2756508	12.05	ppbv	100
76) 1,4-Dichlorobenzene	19.26	146	2928184	12.30	ppbv	100
77) 1,2-Dichlorobenzene	20.01	146	2833231	12.36	ppbv	100
78) Hexachloro-1,3-Butadiene	24.66	225	1246118	12.03	ppbv	100
79) Naphthalene	23.91	128	4084577	15.70	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	642123	11.52	ppbv	98
81) 1,2,4-Trichlorobenzene	23.72	180	1775387	13.75	ppbv	100

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

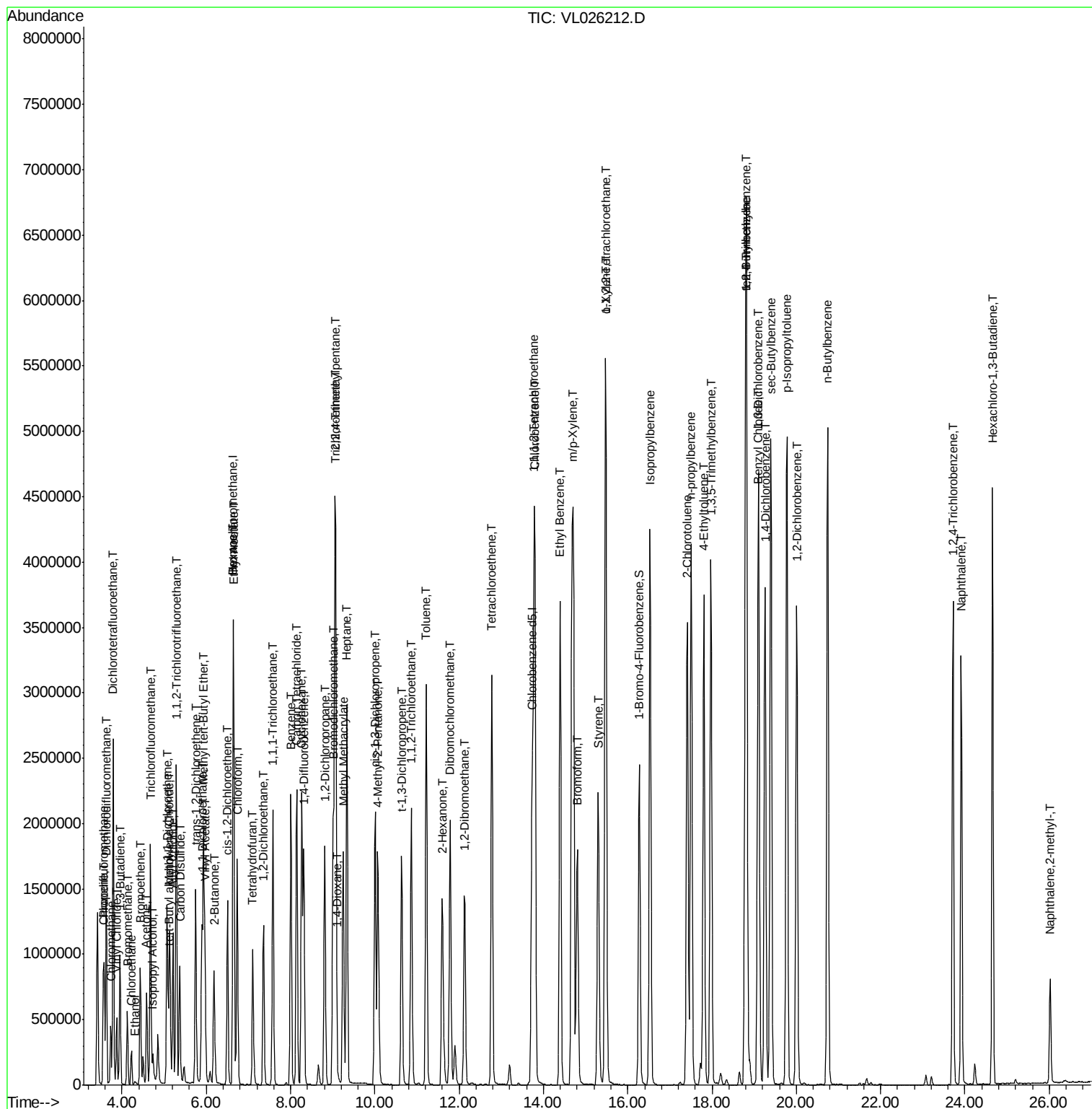
```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\  
Data File : VL026212.D  
Acq On    : 20 Oct 2015   14:43  
Operator  : SY/MD  
Sample    : VSTDICC015  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
```

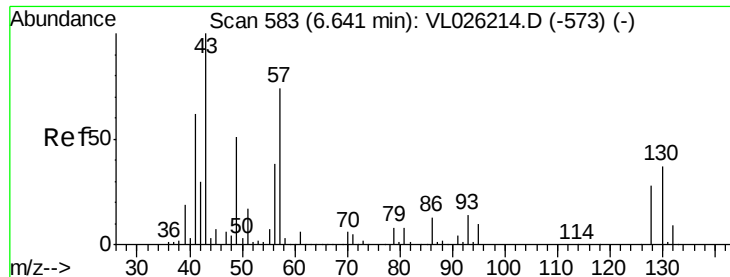
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

MMDadoda
10/22/2015 4:31:05 PM

Quant Time: Oct 20 15:24:36 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Oct
QLast Update : Tue Oct 20 14:37:50 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 546260

Ion Ratio Lower Upper

49 100

128 55.7 28.1 84.3

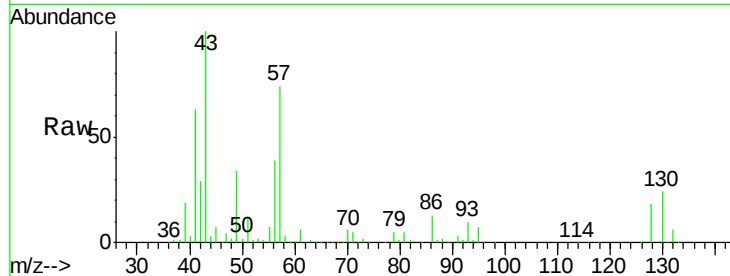
130 71.3 36.2 108.6

Manual Integrations

APPROVED

MMDadoda

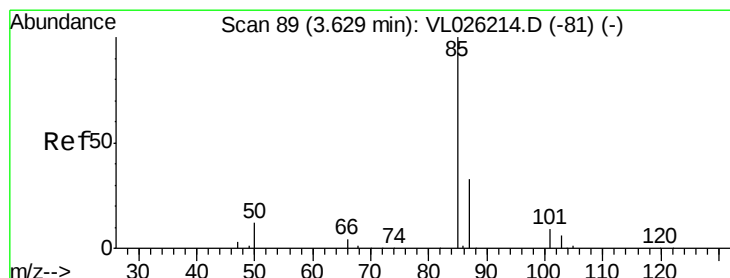
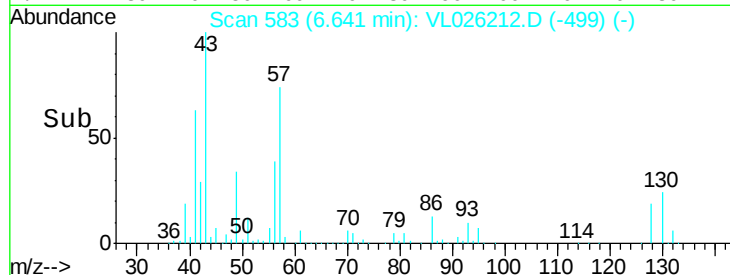
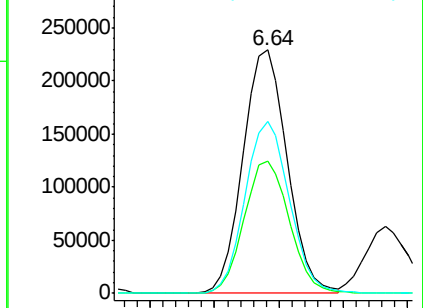
10/22/2015 4:31:05 PM



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: 12.41 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL026212.D

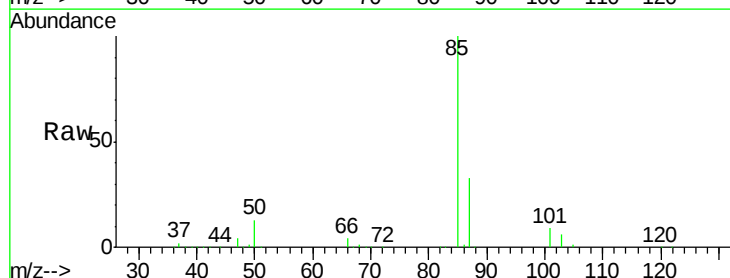
Acq: 20 Oct 2015 14:43

Tgt Ion: 85 Resp: 1414279

Ion Ratio Lower Upper

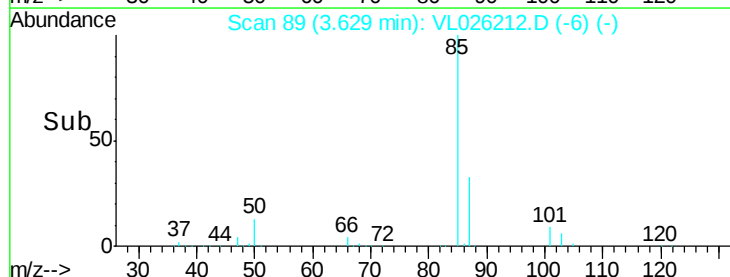
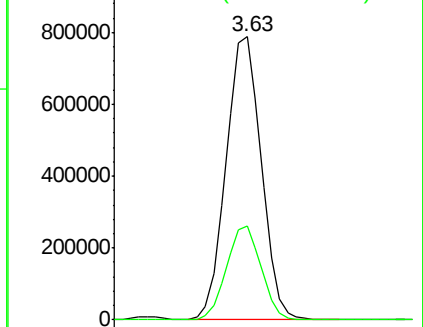
85 100

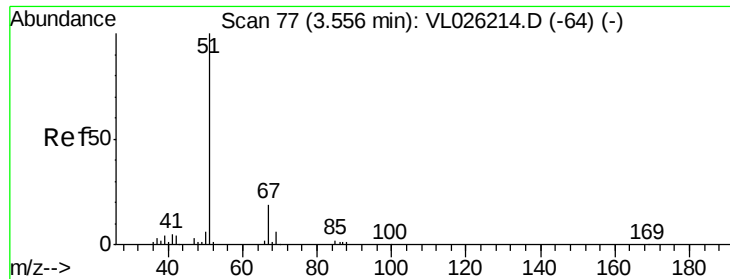
87 33.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.80 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 941176

Ion Ratio Lower Upper

51 100

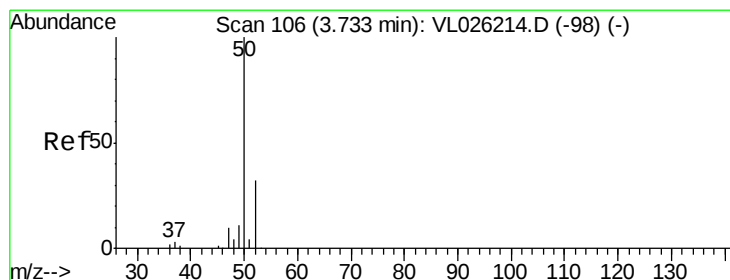
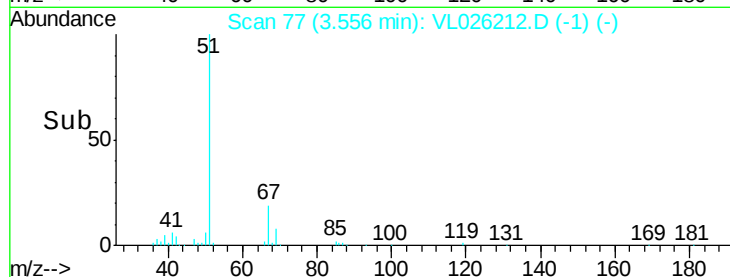
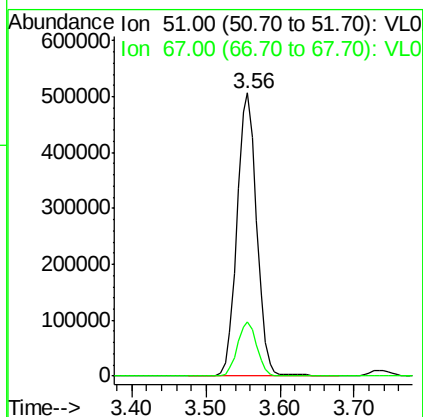
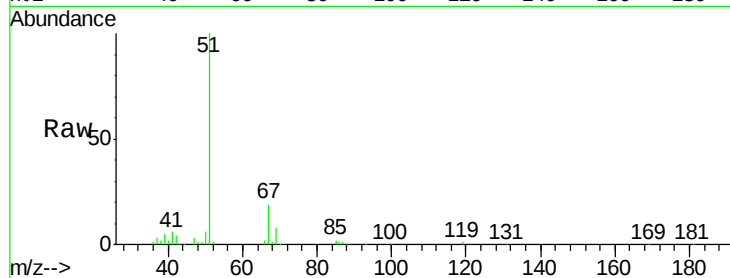
67 19.2 15.6 23.4

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



#4

Chloromethane

Concen: 14.71 ppbv

RT: 3.73 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL026212.D

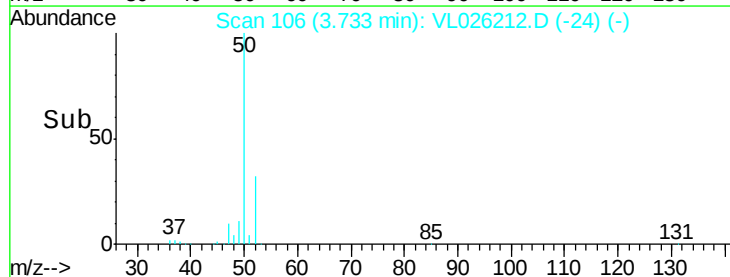
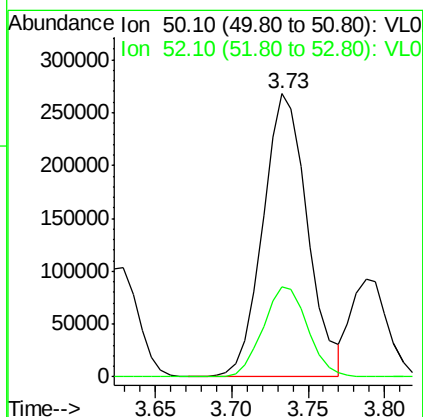
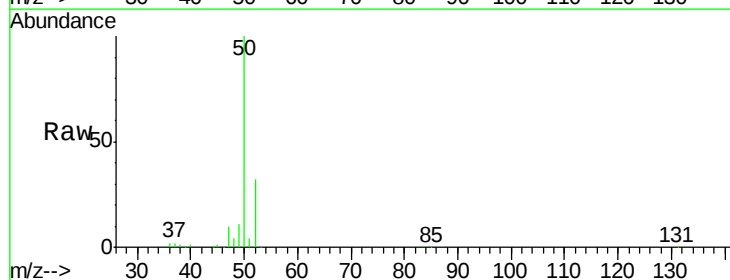
Acq: 20 Oct 2015 14:43

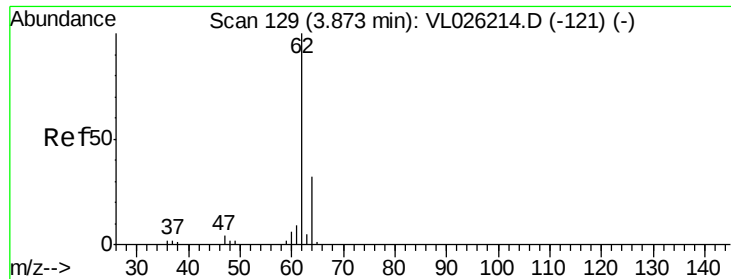
Tgt Ion: 50 Resp: 543602

Ion Ratio Lower Upper

50 100

52 32.0 25.8 38.6





#5

Vinyl Chloride

Concen: 14.78 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 575803

Ion Ratio Lower Upper

62 100

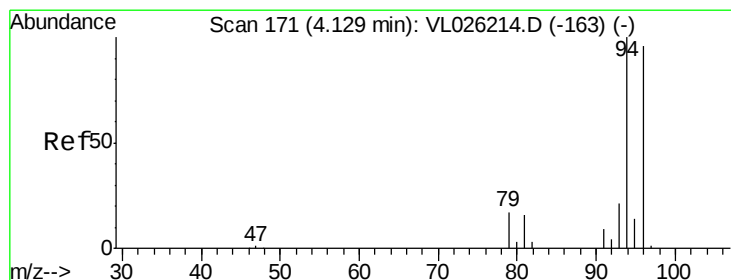
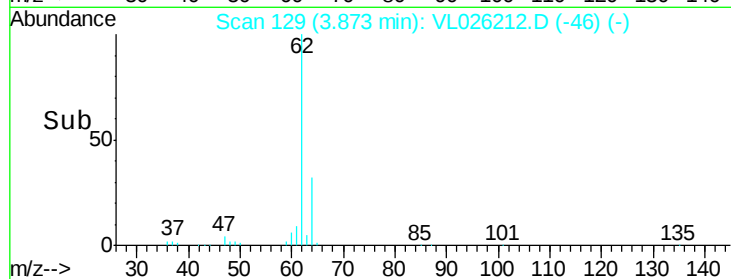
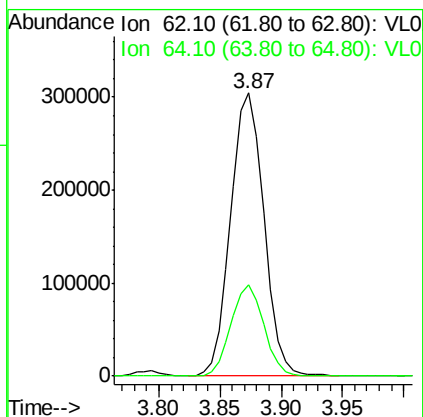
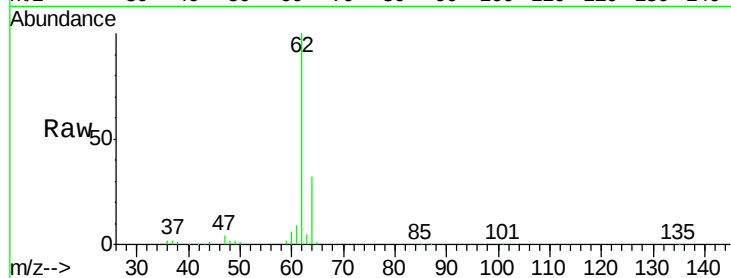
64 32.2 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



#6

Bromomethane

Concen: 14.66 ppbv

RT: 4.13 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL026212.D

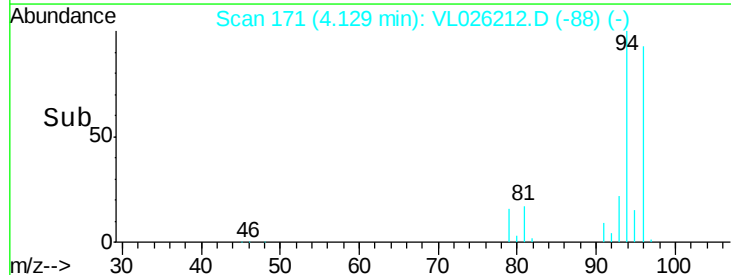
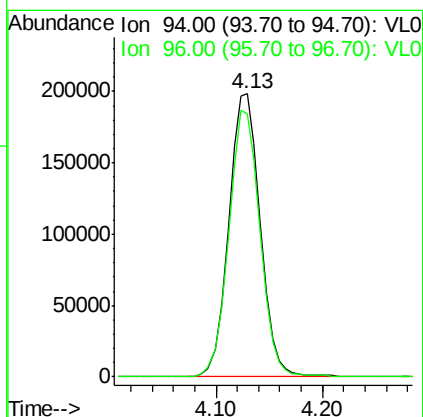
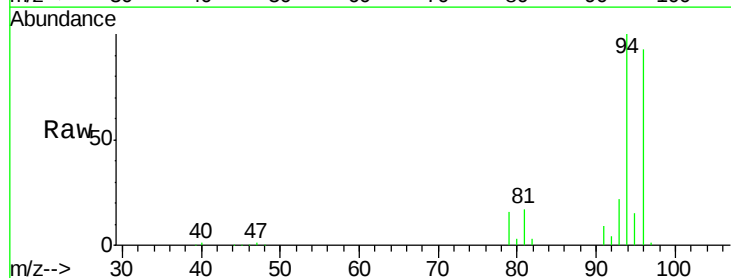
Acq: 20 Oct 2015 14:43

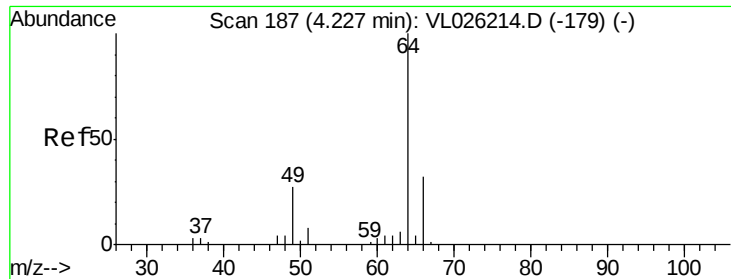
Tgt Ion: 94 Resp: 410403

Ion Ratio Lower Upper

94 100

96 93.0 75.5 113.3





#7

Chloroethane

Concen: 14.78 ppbv

RT: 4.22 min Scan# 186

Delta R.T. -0.00 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 242607

Ion Ratio Lower Upper

64 100

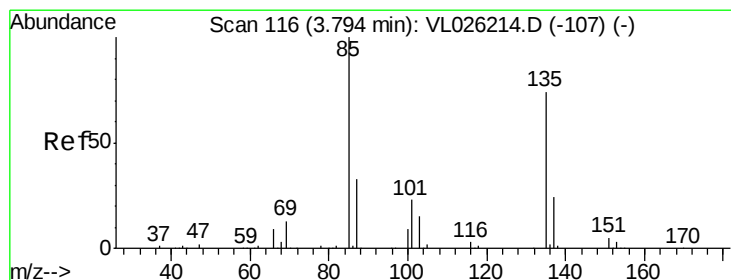
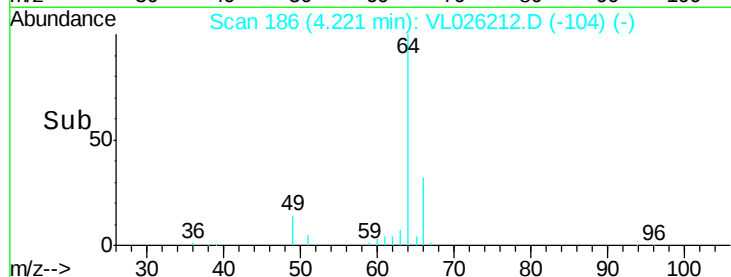
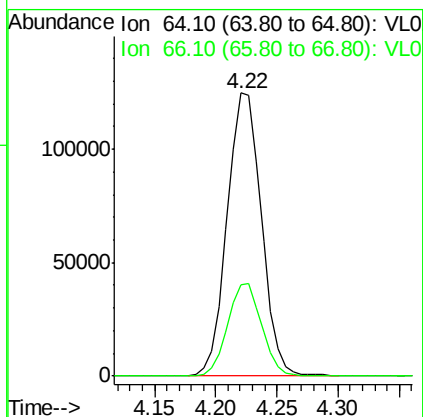
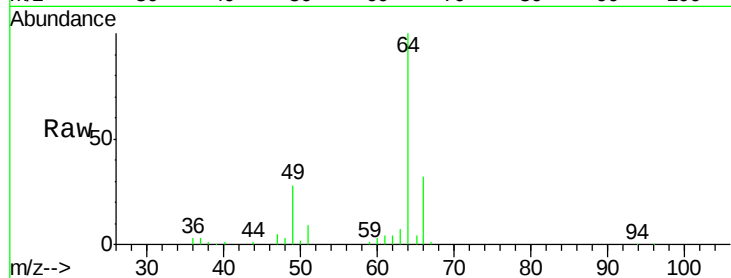
66 32.4 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



#8

Dichlorotetrafluoroethane

Concen: 14.42 ppbv

RT: 3.79 min Scan# 115

Delta R.T. -0.00 min

Lab File: VL026212.D

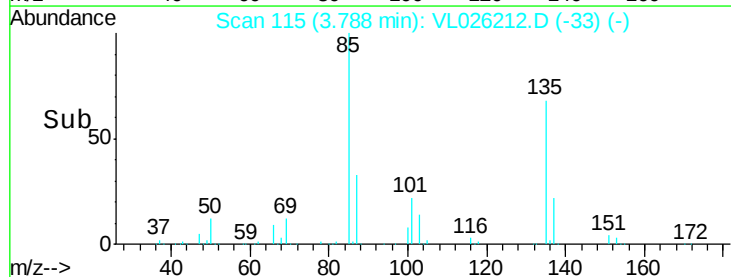
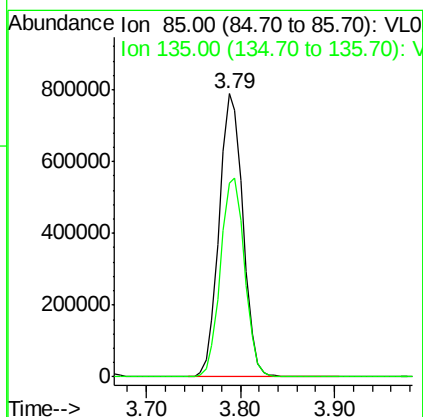
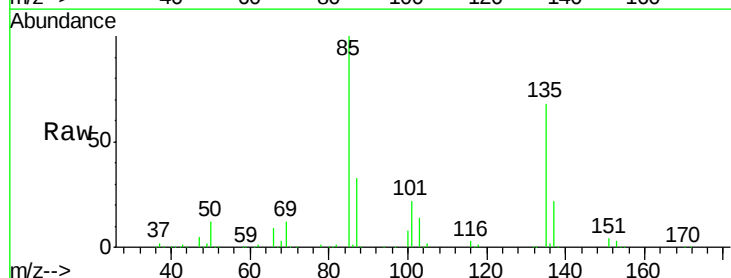
Acq: 20 Oct 2015 14:43

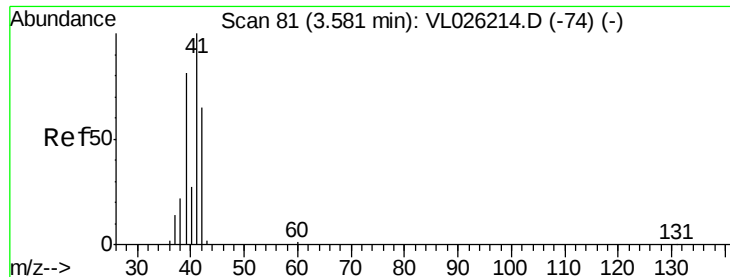
Tgt Ion: 85 Resp: 1376963

Ion Ratio Lower Upper

85 100

135 71.7 57.5 86.3





#9

Propene

Concen: 14.28 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 455216

Ion Ratio Lower Upper

41 100

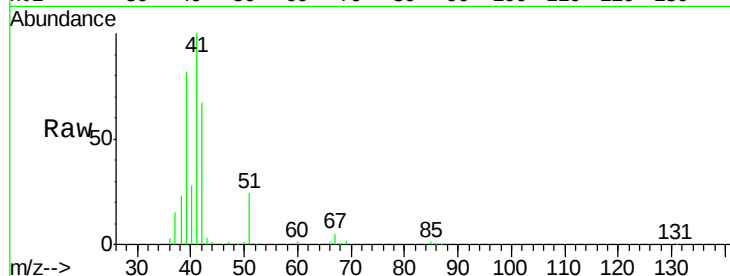
42 67.7 53.1 79.7

Manual Integrations

APPROVED

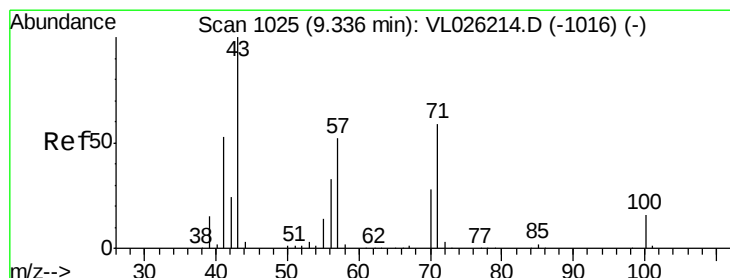
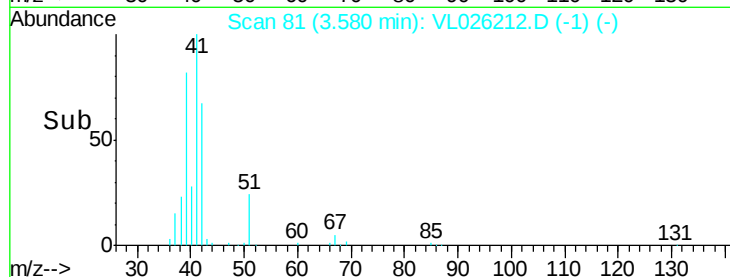
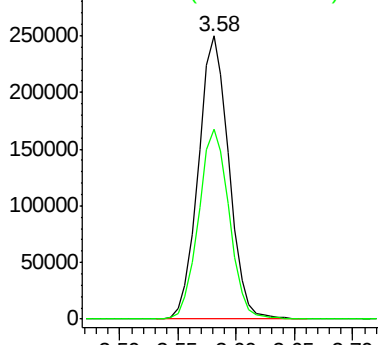
MMDadoda

10/22/2015 4:31:05 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 14.26 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. 0.01 min

Lab File: VL026212.D

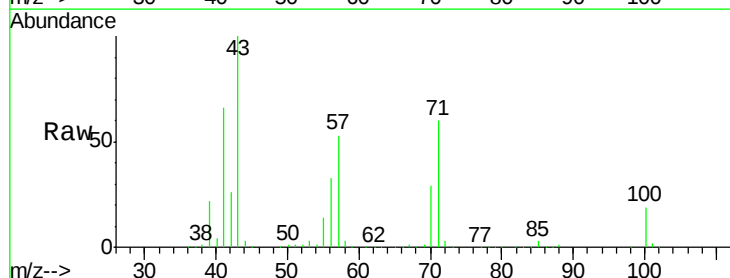
Acq: 20 Oct 2015 14:43

Tgt Ion: 43 Resp: 1536086

Ion Ratio Lower Upper

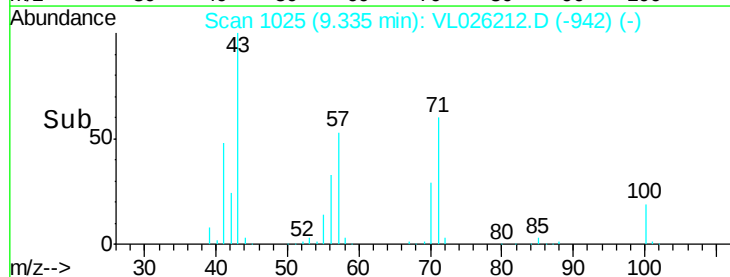
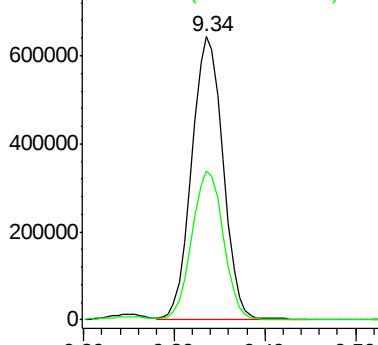
43 100

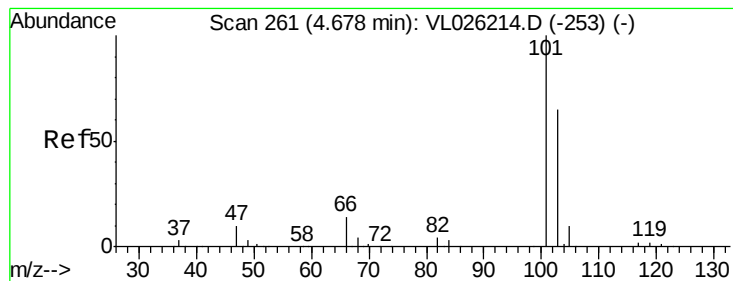
57 54.4 43.5 65.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 14.72 ppbv

RT: 4.68 min Scan# 261

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 1601034

Ion Ratio Lower Upper

101 100

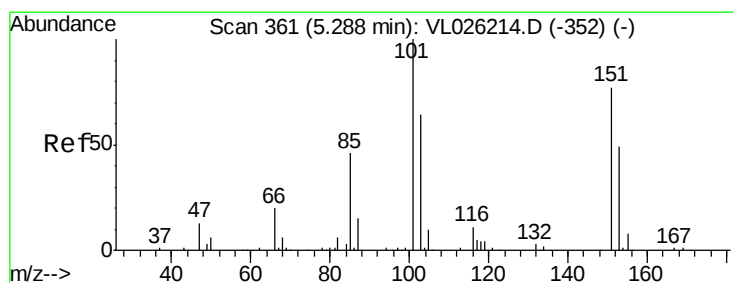
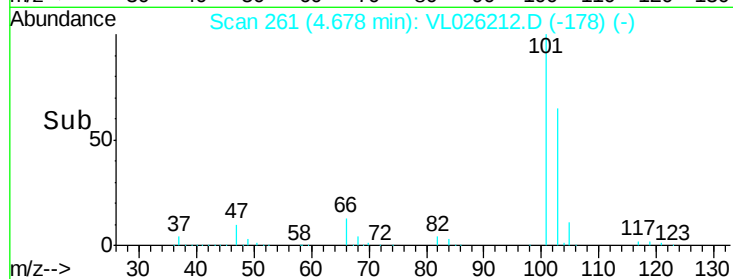
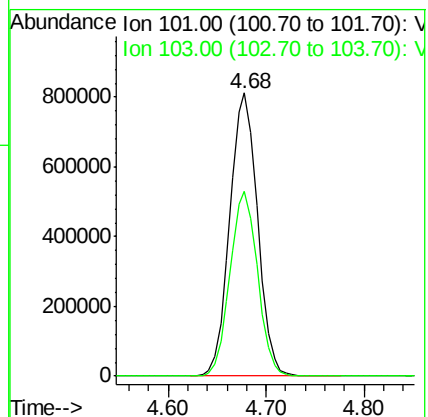
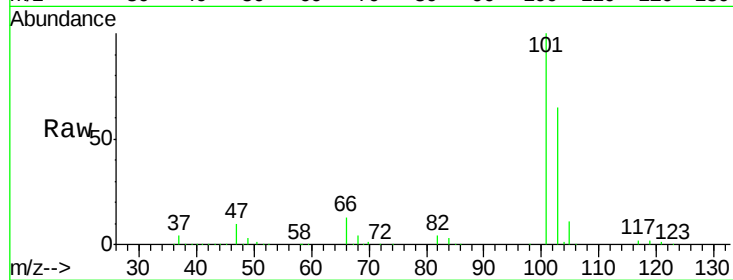
103 65.2 51.2 76.8

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.40 ppbv

RT: 5.29 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL026212.D

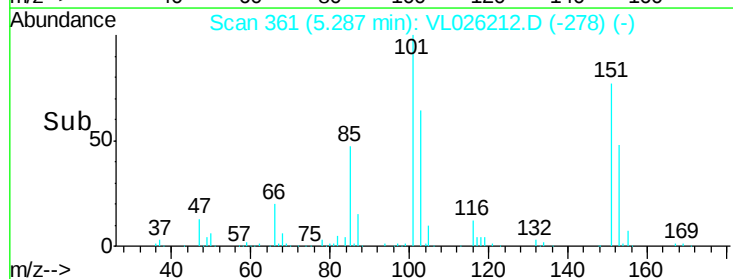
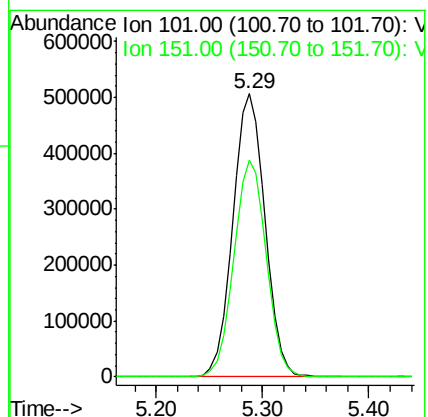
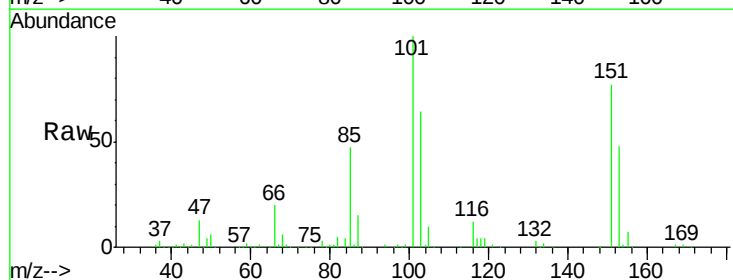
Acq: 20 Oct 2015 14:43

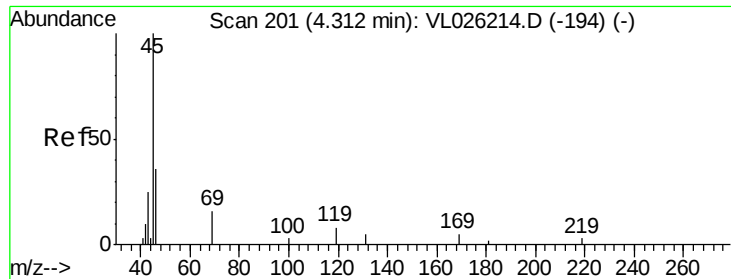
Tgt Ion:101 Resp: 1073290

Ion Ratio Lower Upper

101 100

151 77.3 61.4 92.0





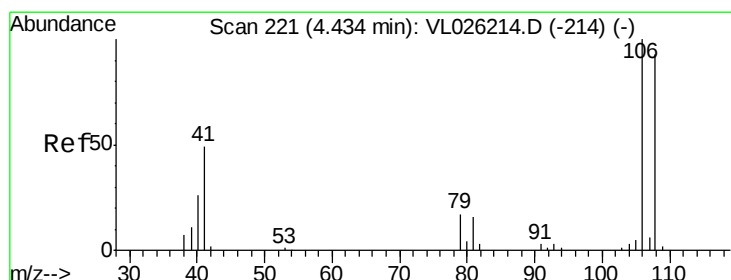
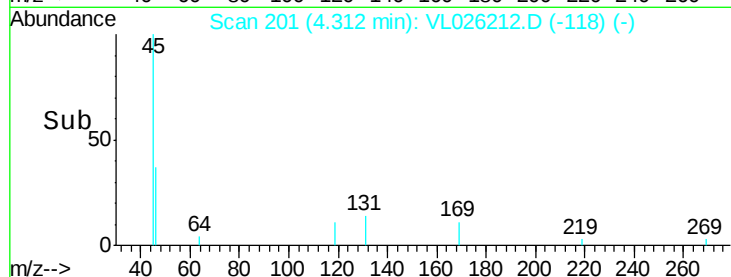
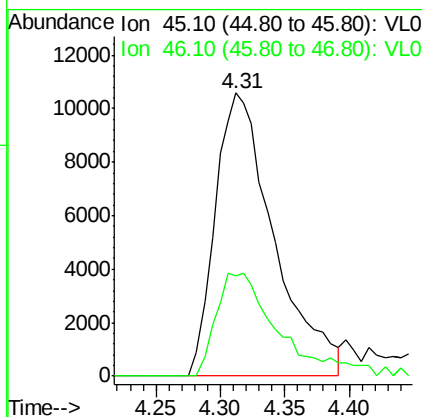
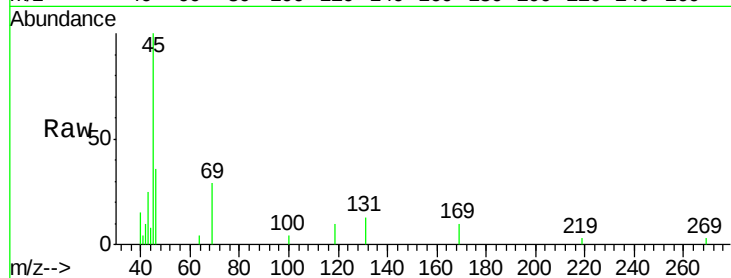
#13
Ethanol
Concen: 6.42 ppbv
RT: 4.31 min Scan# 201
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 33639
Ion Ratio Lower Upper
45 100
46 39.3 16.1 64.3

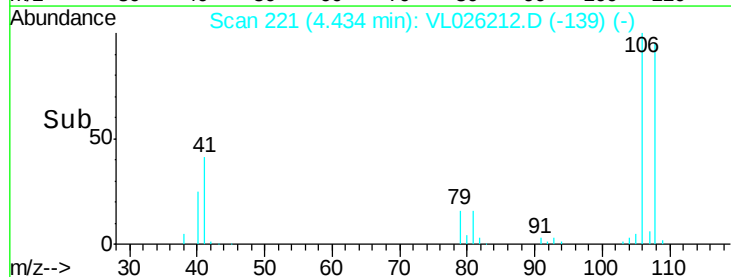
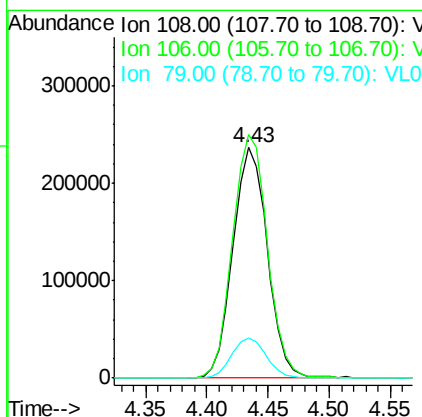
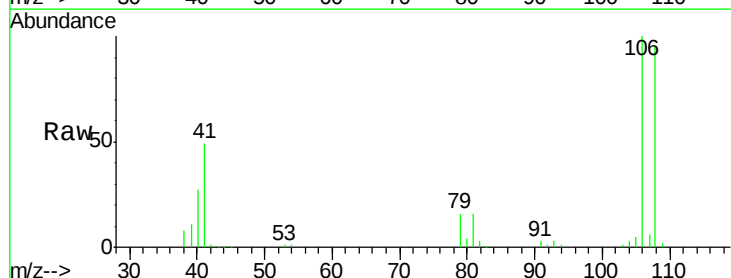
Manual Integrations
APPROVED

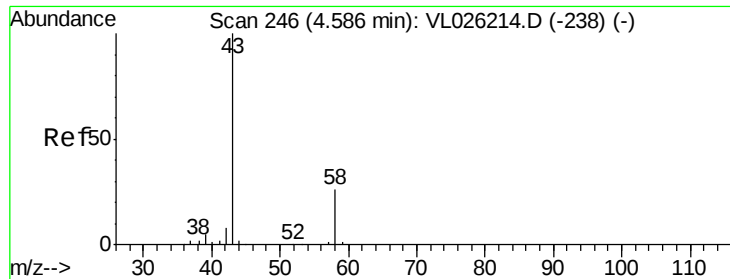
MMDadoda
10/22/2015 4:31:05 PM



#14
Bromoethene
Concen: 14.69 ppbv
RT: 4.43 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion: 108 Resp: 462906
Ion Ratio Lower Upper
108 100
106 107.4 85.3 127.9
79 17.6 13.4 20.0





#15

Acetone

Concen: 12.20 ppbv

RT: 4.58 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tot Ion: 43 Resp: 980657

Ion Ratio Lower Upper

43 100

58 26.9 21.0 31.4

Instrument :

MSVOA_L

ClientSampleId :

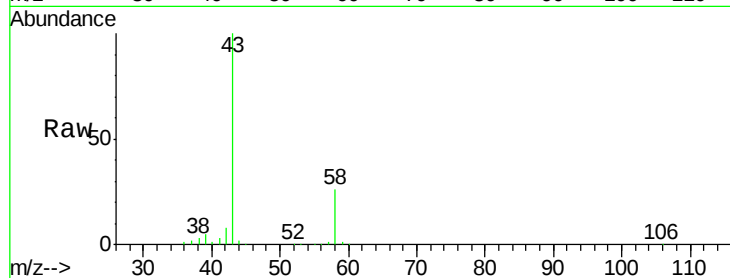
VSTDIC015

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.58

400000

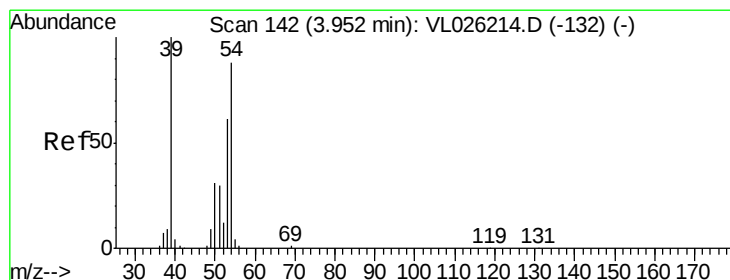
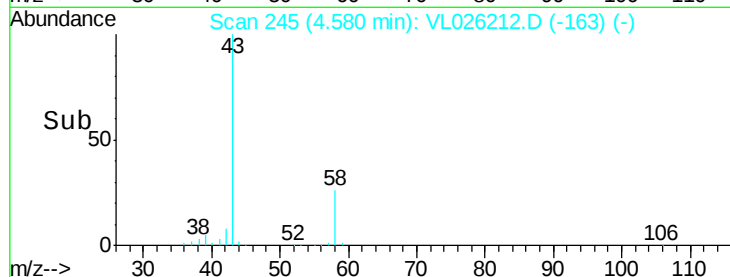
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 14.84 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL026212.D

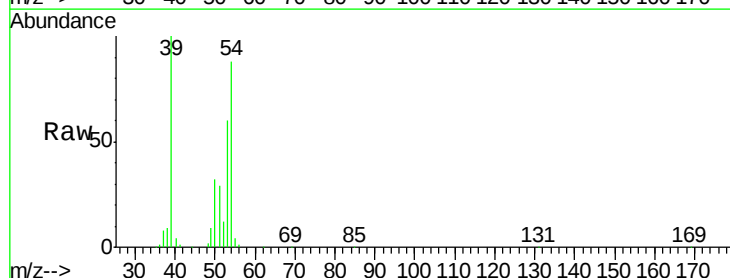
Acq: 20 Oct 2015 14:43

Tgt Ion: 39 Resp: 523616

Ion Ratio Lower Upper

39 100

54 83.5 67.3 100.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.95

300000

250000

200000

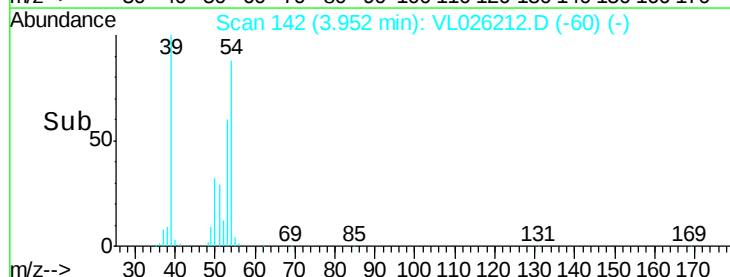
150000

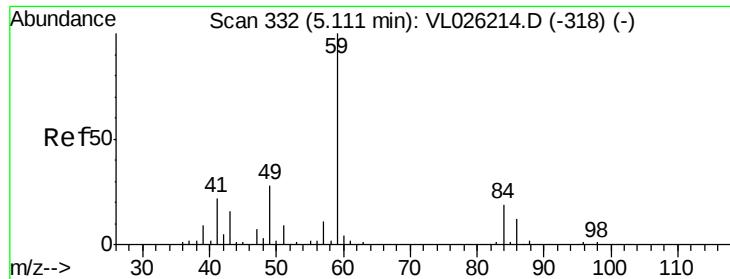
100000

50000

0

Time-->





#17

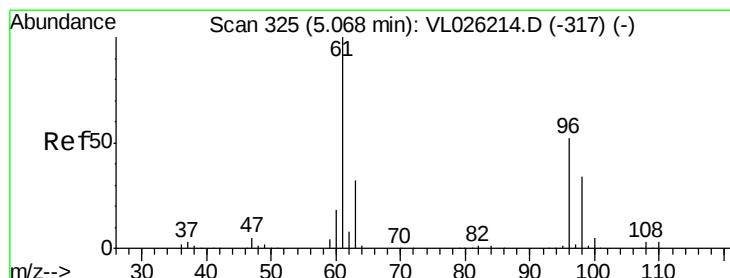
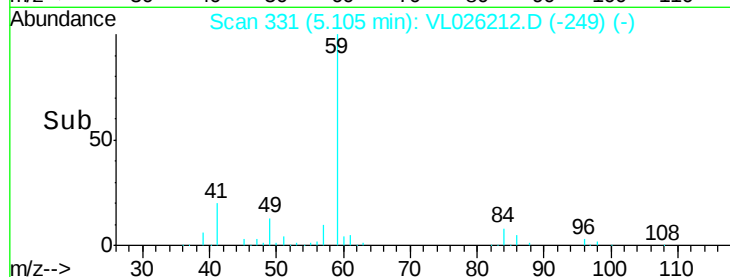
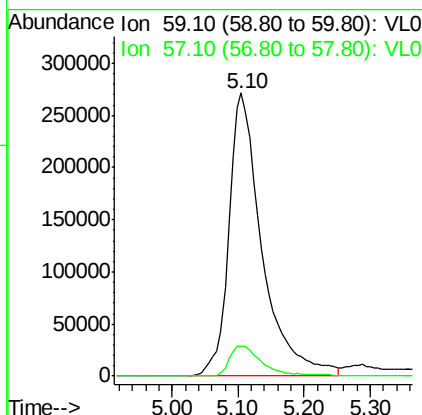
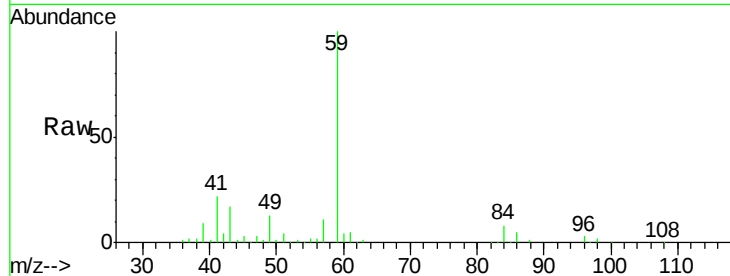
tert-Butyl alcohol
 Concen: 18.80 ppbv
 RT: 5.10 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	59	Resp	947672
Ion Ratio	100	Lower	Upper
57	11.0	8.6	12.8

Manual Integrations
 APPROVED

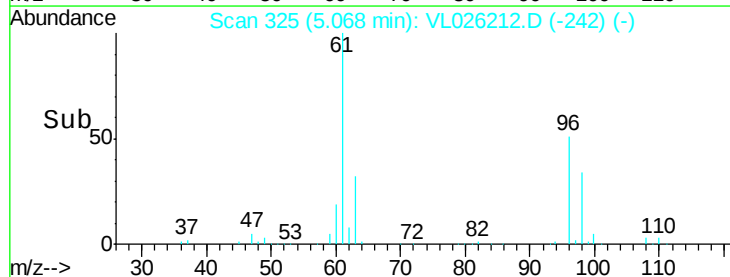
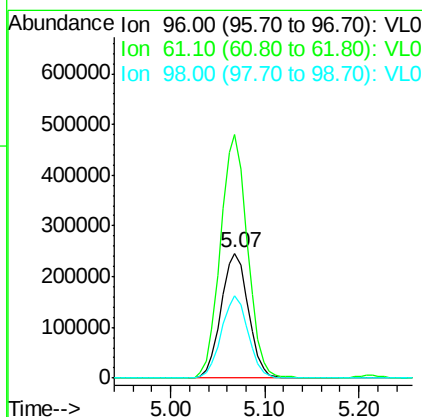
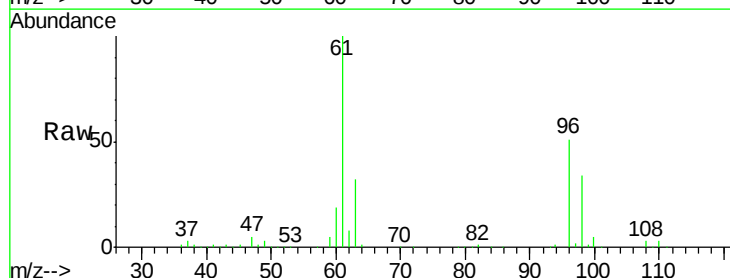
MMDadoda
 10/22/2015 4:31:05 PM

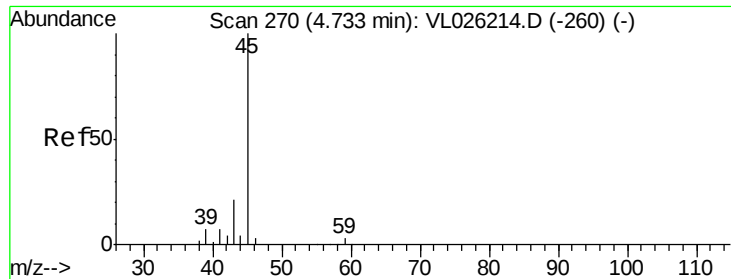


#18

1,1-Dichloroethene
 Concen: 14.63 ppbv
 RT: 5.07 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	96	Resp	496300
Ion Ratio	100	Lower	Upper
61	195.3	146.6	219.8
98	66.4	50.5	75.7





#19

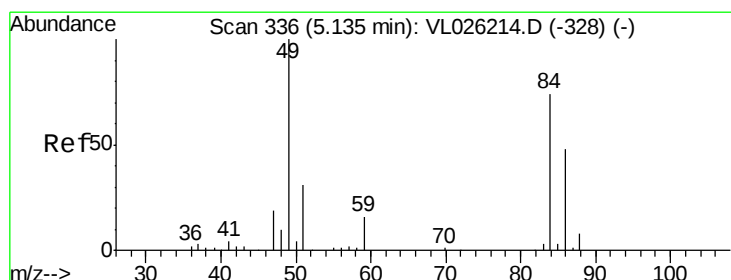
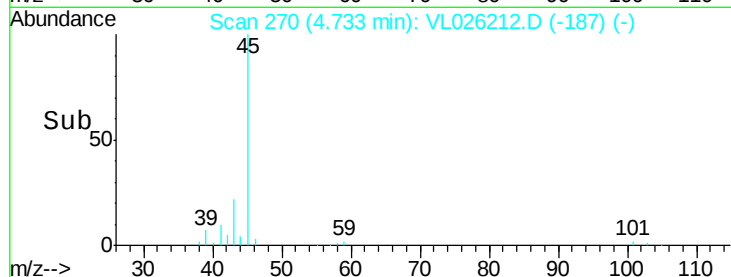
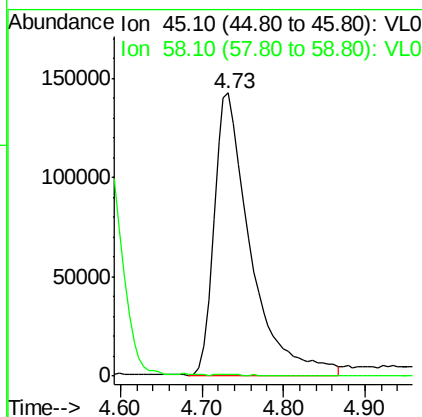
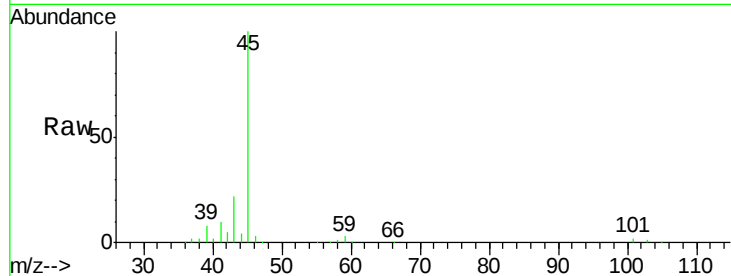
Isopropyl Alcohol
 Concen: 13.99 ppbv
 RT: 4.73 min Scan# 270
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
58	60.2	42.4	63.6

Manual Integrations
 APPROVED

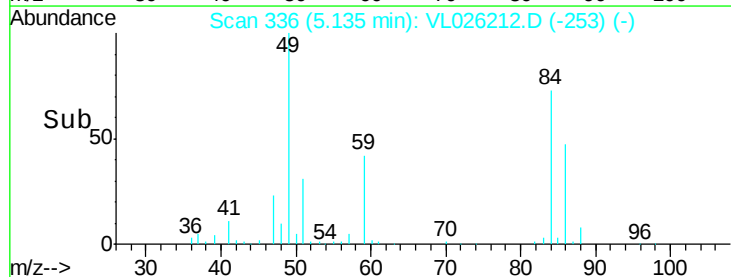
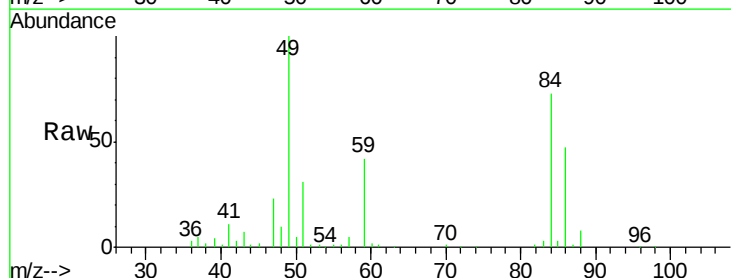
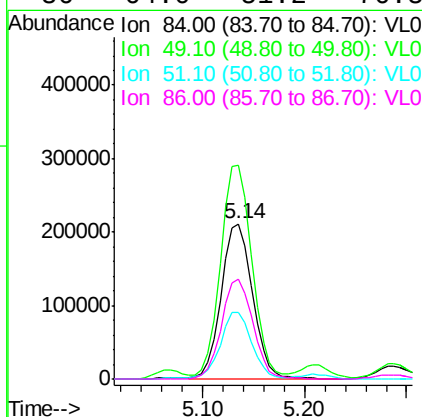
MMDadoda
 10/22/2015 4:31:05 PM

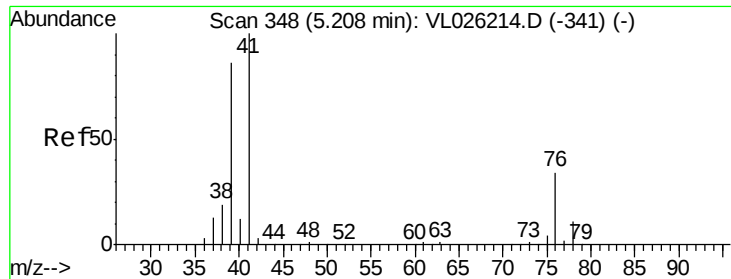


#20

Methylene Chloride
 Concen: 14.21 ppbv
 RT: 5.14 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	135.4	107.9	161.9
51	41.8	32.4	48.6
86	64.0	51.2	76.8





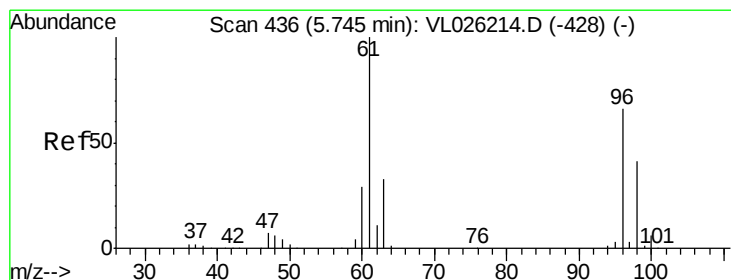
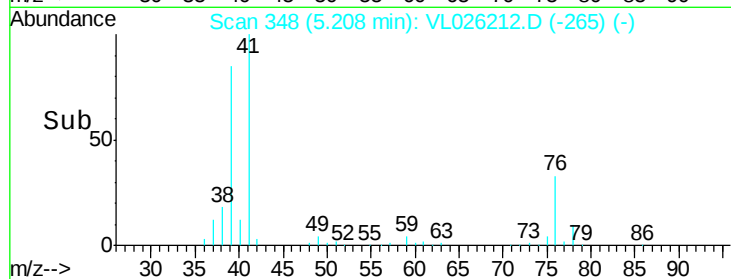
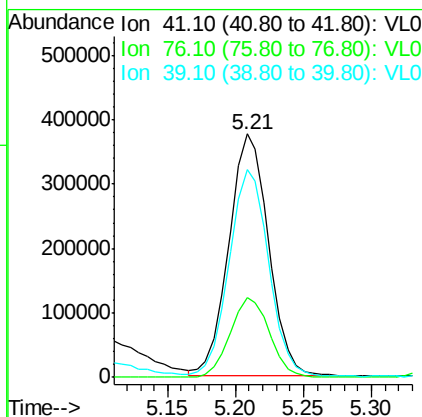
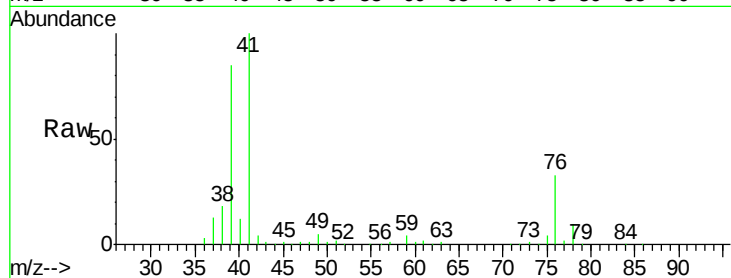
#21
Allvl Chloride
Concen: 14.57 ppbv
RT: 5.21 min Scan# 348
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.0	26.2	39.4
39	85.4	65.6	98.4

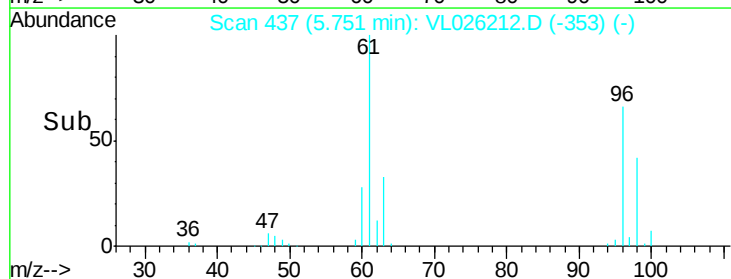
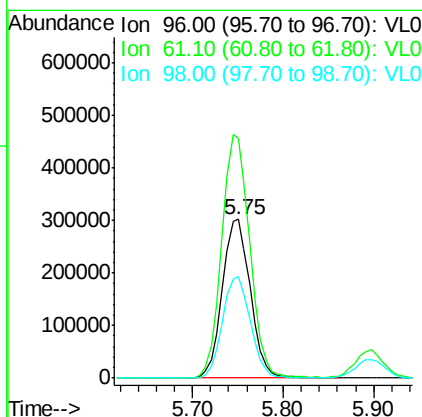
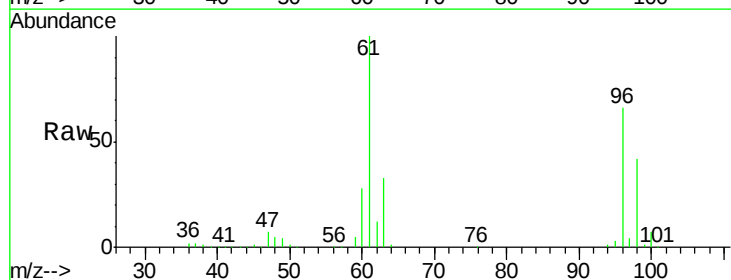
Manual Integrations
APPROVED

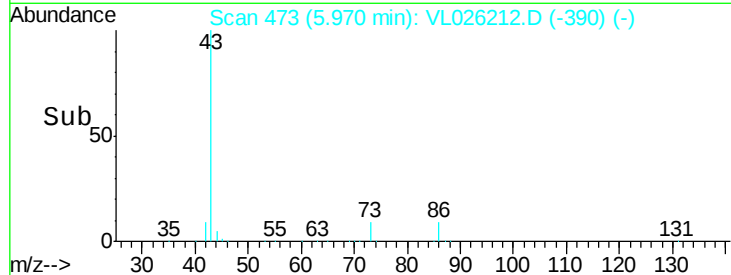
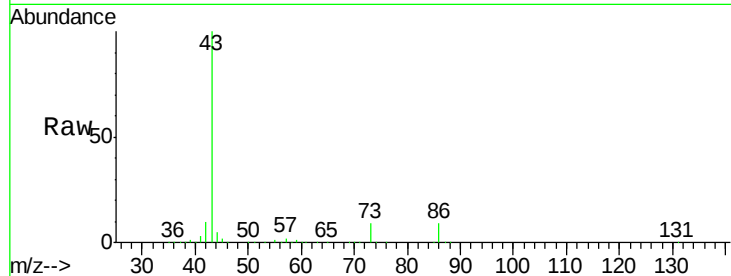
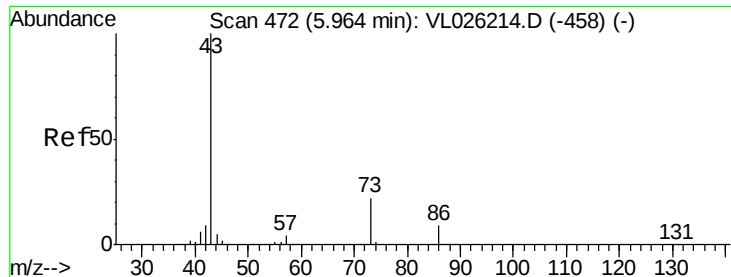
MMDadoda
10/22/2015 4:31:05 PM



#22
trans-1,2-Dichloroethene
Concen: 15.04 ppbv
RT: 5.75 min Scan# 437
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.0	121.3	181.9
98	63.8	49.8	74.8





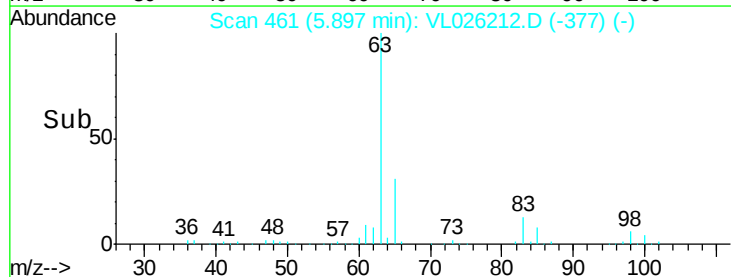
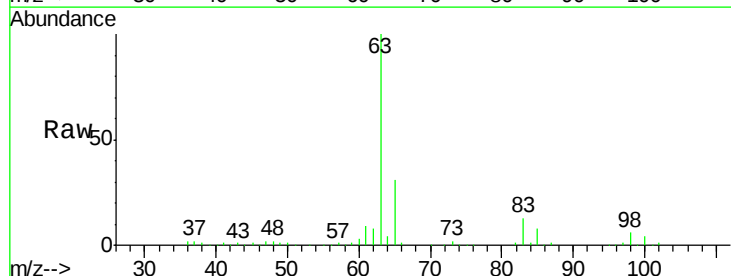
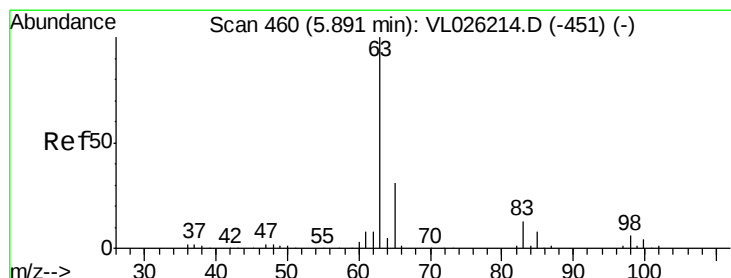
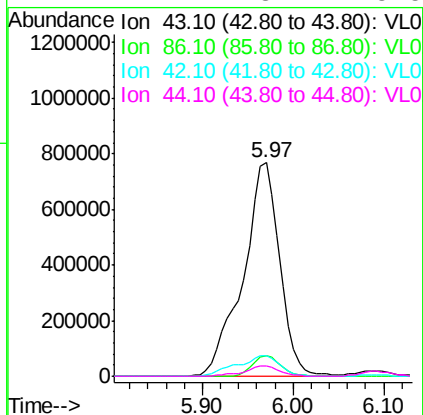
#23
 Vinyl Acetate
 Concen: 14.53 ppbv
 RT: 5.97 min Scan# 473
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tot Ion	43	Resp	2143099
Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.6
42	9.6	8.4	12.6
44	4.7	3.7	5.5

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

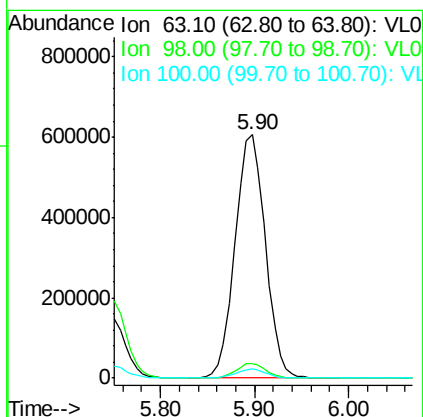
Manual Integrations
 APPROVED

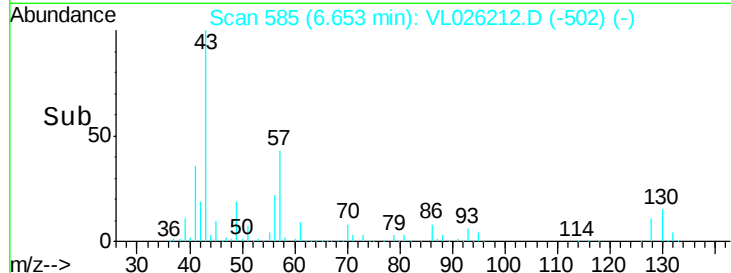
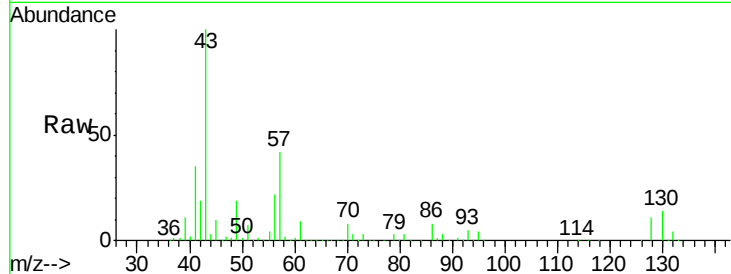
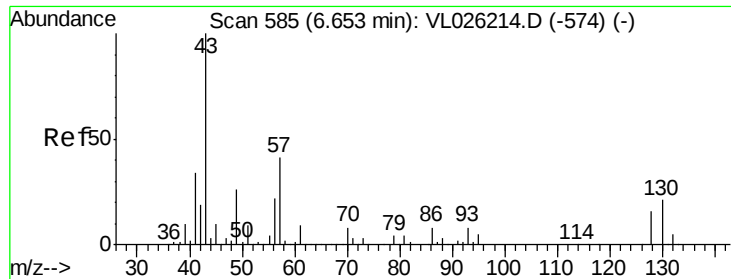
MMDadoda
 10/22/2015 4:31:05 PM



#24
 1,1-Dichloroethane
 Concen: 14.66 ppbv
 RT: 5.90 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	63	Resp	1345371
Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.9	8.7
100	3.6	1.8	5.5





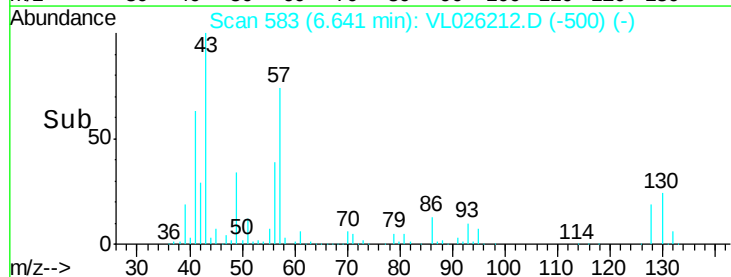
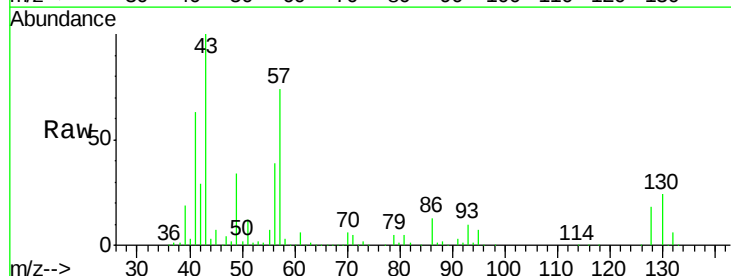
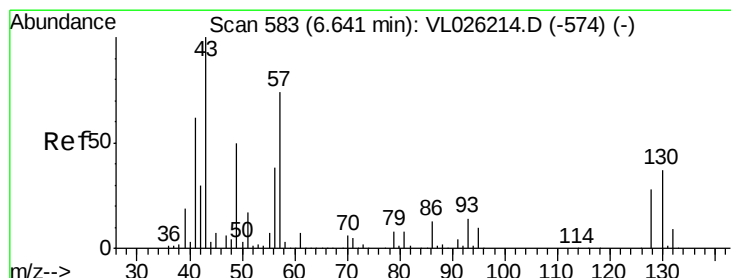
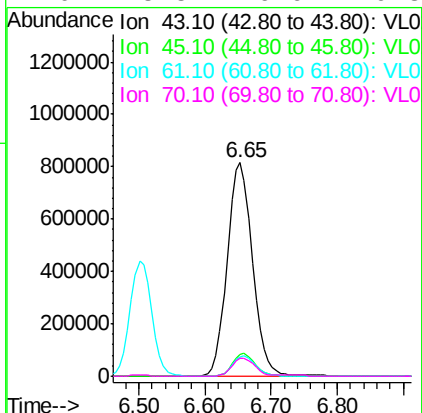
#25
Ethyl Acetate
Concen: 14.51 ppbv
RT: 6.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tot Ion	43	Ratio	100	Resp	2149511	Lower	Upper
43	100						
45	9.7					7.5	11.3
61	9.0					7.5	11.3
70	8.5					6.9	10.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

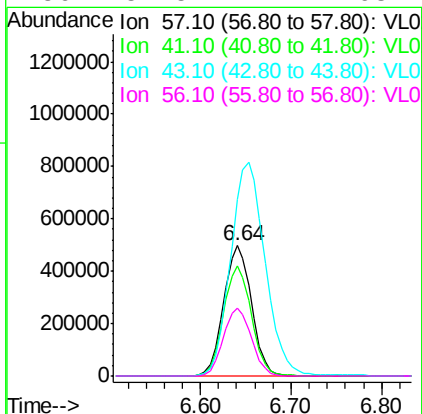
Manual Integrations
APPROVED

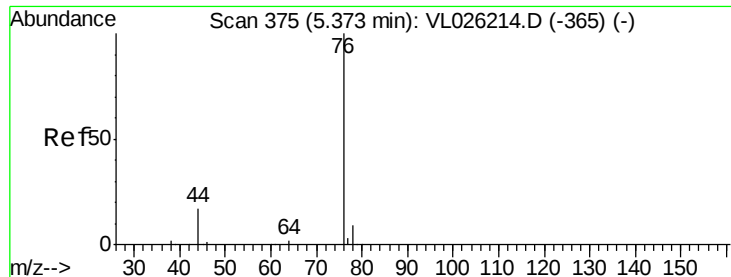
MMDadoda
10/22/2015 4:31:05 PM



#26
Hexane
Concen: 14.24 ppbv
RT: 6.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion	57	Ratio	100	Resp	1059959	Lower	Upper
57	100						
41	85.7					67.0	100.6
43	203.5					156.0	234.0
56	52.5					42.1	63.1





#27

Carbon Disulfide

Concen: 14.94 ppbv

RT: 5.37 min Scan# 375

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1420269

Ion Ratio Lower Upper

76 100

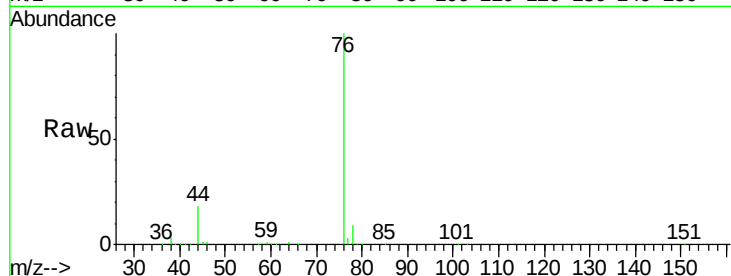
44 17.6 13.8 20.6

78 9.3 7.4 11.2

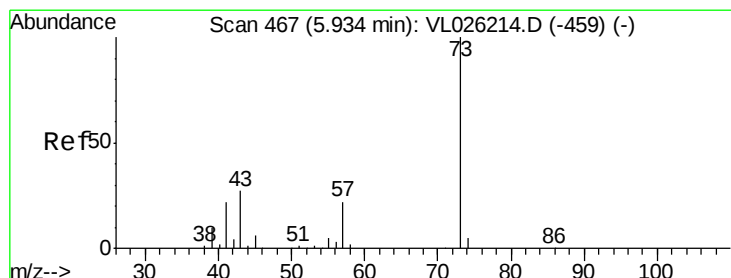
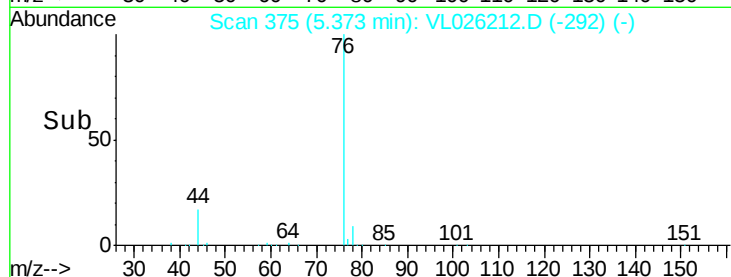
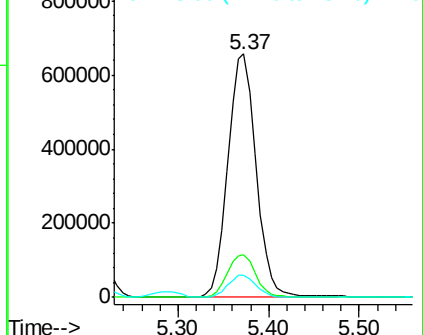
Manual Integrations
APPROVED

MMDadoda

10/22/2015 4:31:05 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: 15.05 ppbv

RT: 5.93 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL026212.D

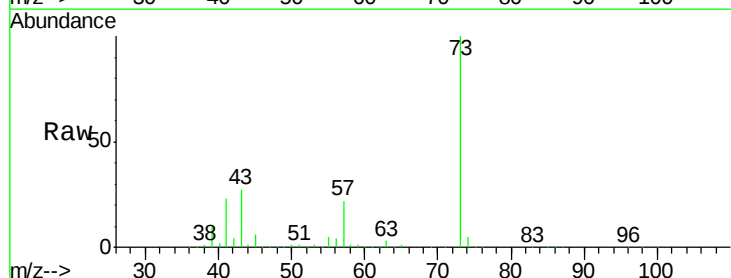
Acq: 20 Oct 2015 14:43

Tgt Ion: 73 Resp: 1984815

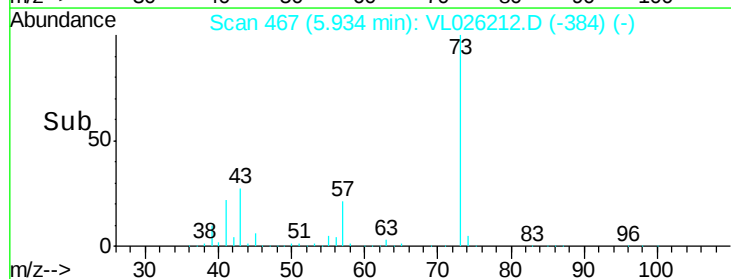
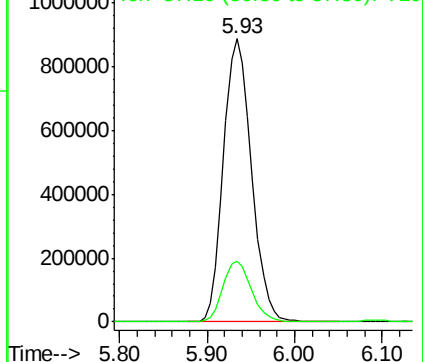
Ion Ratio Lower Upper

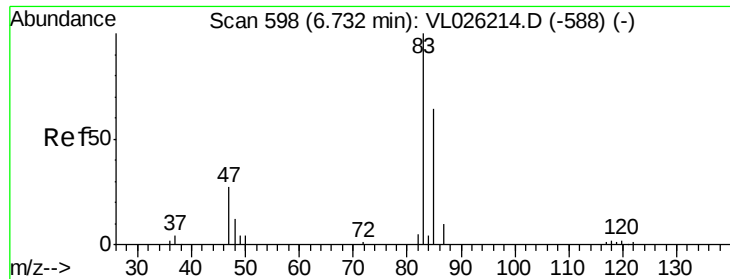
73 100

57 21.6 17.9 26.9



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





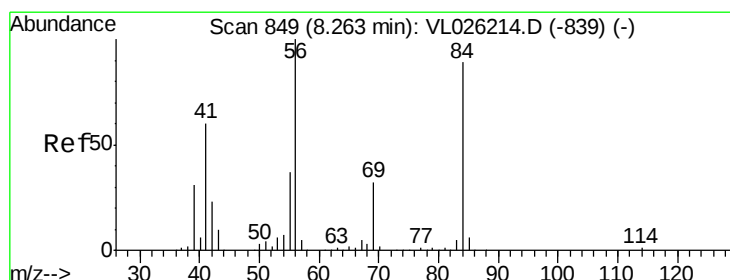
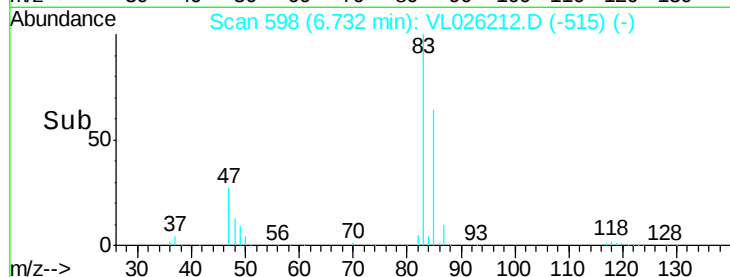
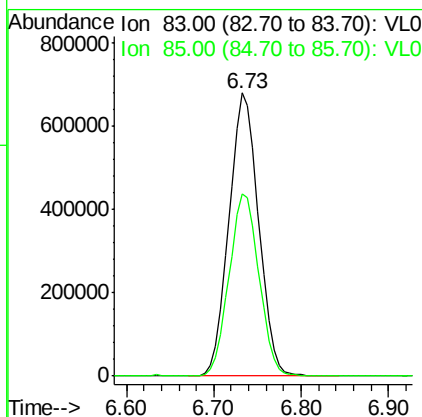
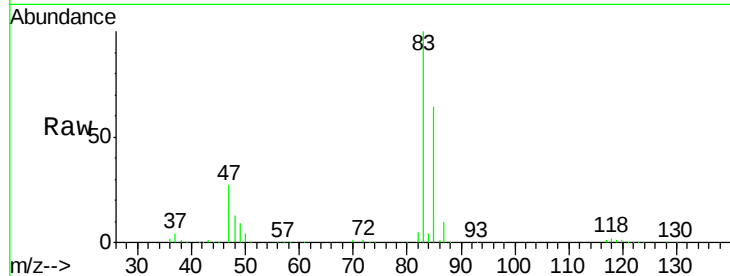
#29
Chloroform
Concen: 15.04 ppbv
RT: 6.73 min Scan# 598
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 1603035
Ion Ratio Lower Upper
83 100
85 64.2 51.8 77.6

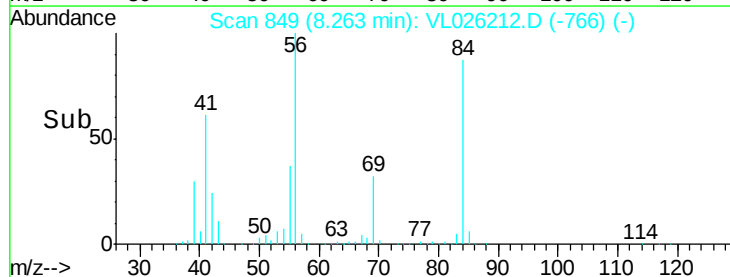
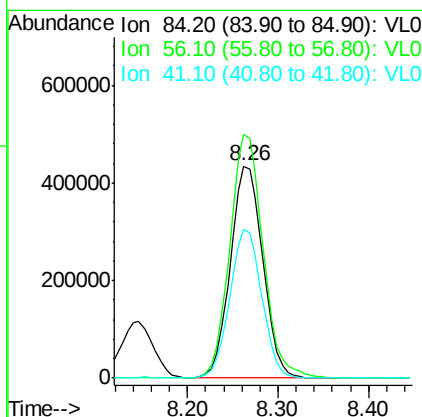
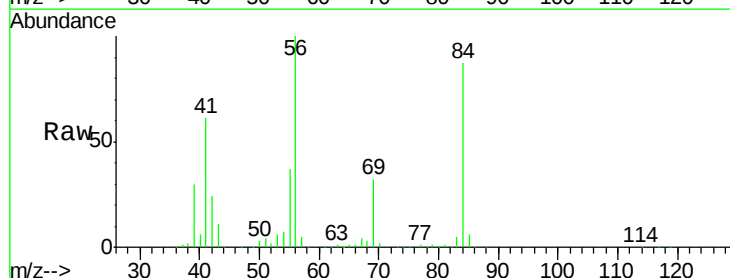
Manual Integrations
APPROVED

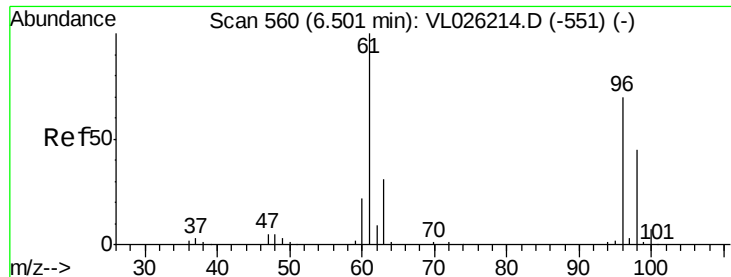
MMDadoda
10/22/2015 4:31:05 PM



#30
Cyclohexane
Concen: 14.67 ppbv
RT: 8.26 min Scan# 849
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion: 84 Resp: 1083105
Ion Ratio Lower Upper
84 100
56 118.6 97.5 146.3
41 69.5 54.6 81.8





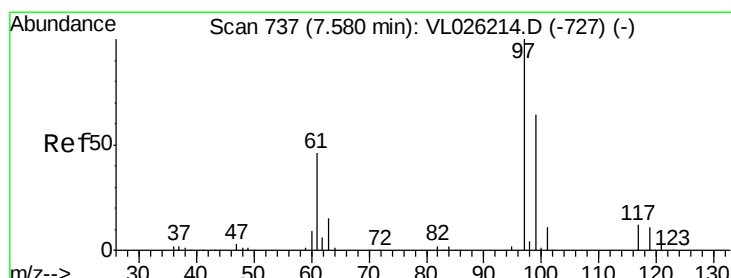
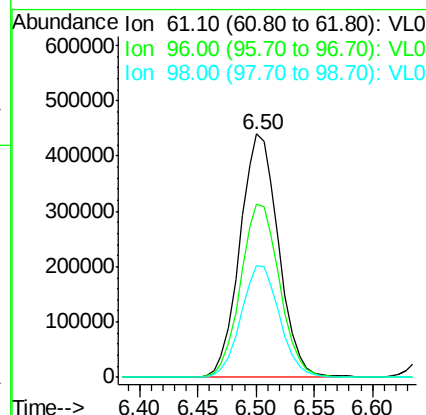
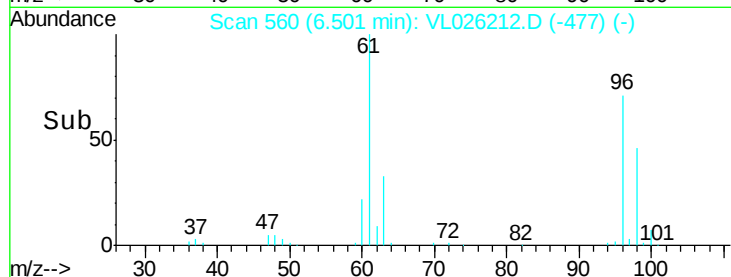
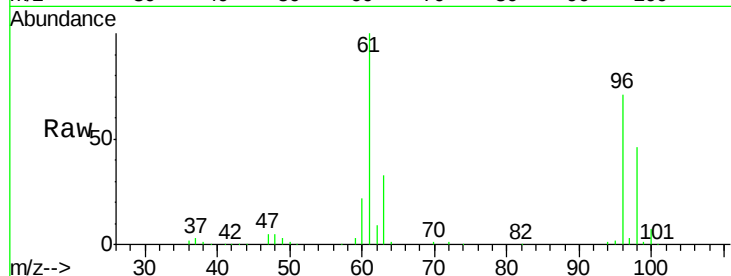
#31
 cis-1,2-Dichloroethene
 Concen: 15.11 ppbv
 RT: 6.50 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 61 Resp: 1013207
 Ion Ratio Lower Upper
 61 100
 96 71.2 57.9 86.9
 98 45.7 37.2 55.8

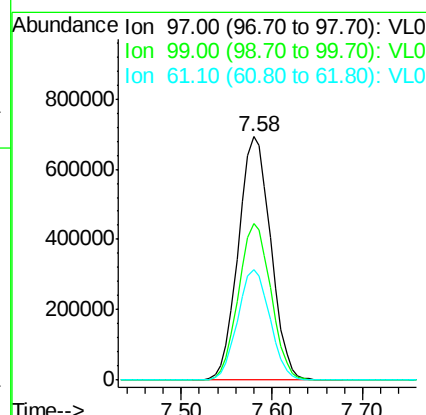
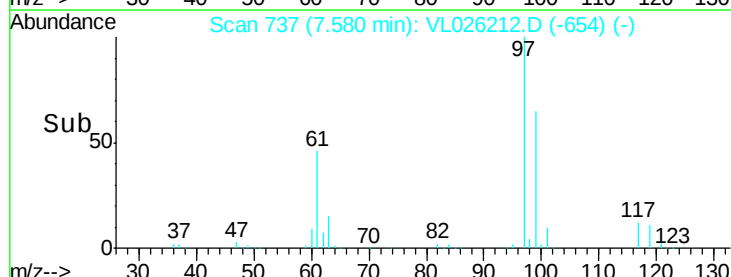
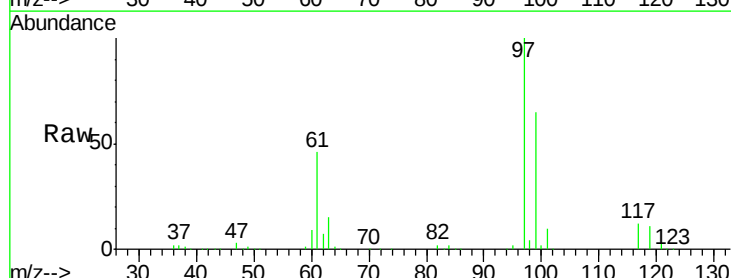
Manual Integrations
 APPROVED

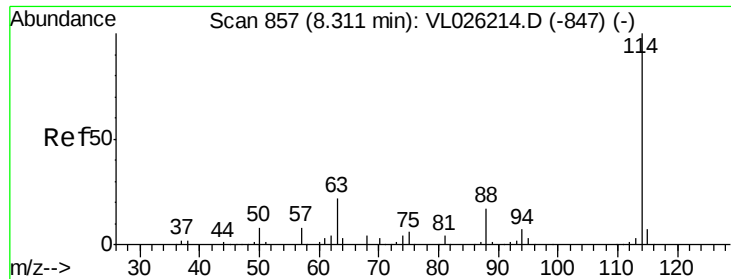
MMDadoda
 10/22/2015 4:31:05 PM



#32
 1,1,1-Trichloroethane
 Concen: 14.54 ppbv
 RT: 7.58 min Scan# 737
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion: 97 Resp: 1720675
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.4 77.2
 61 45.3 36.0 54.0





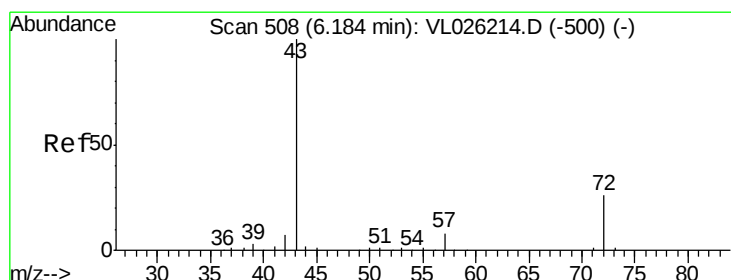
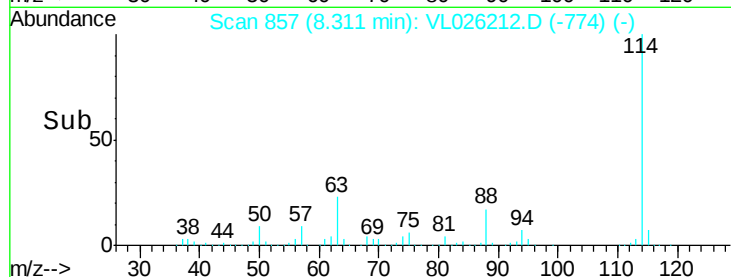
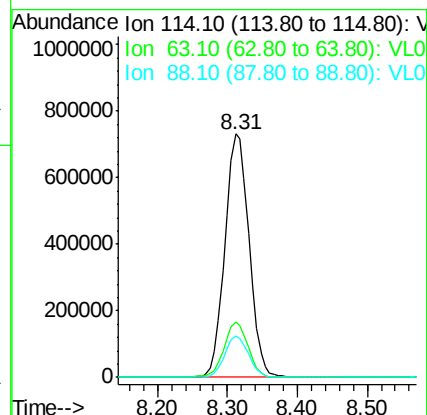
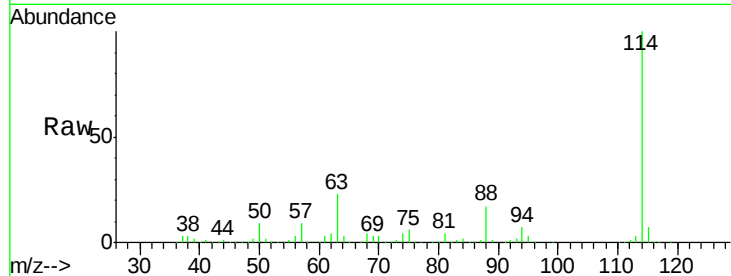
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tot Ion:114 Resp: 1757093
 Ion Ratio Lower Upper
 114 100
 63 22.8 17.9 26.9
 88 16.8 13.6 20.4

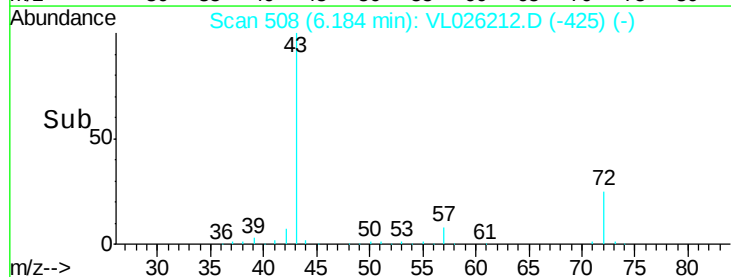
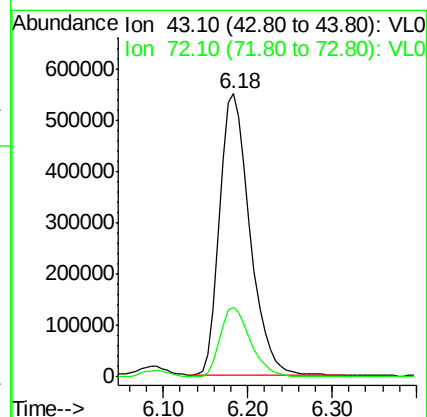
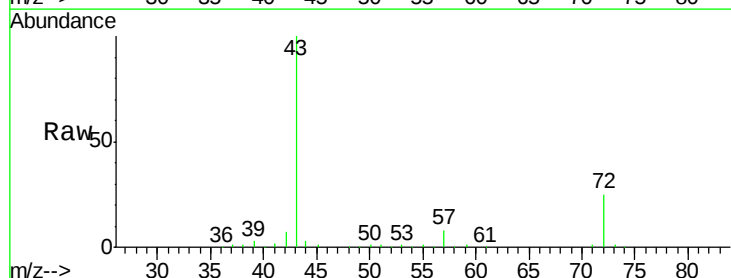
Manual Integrations
 APPROVED

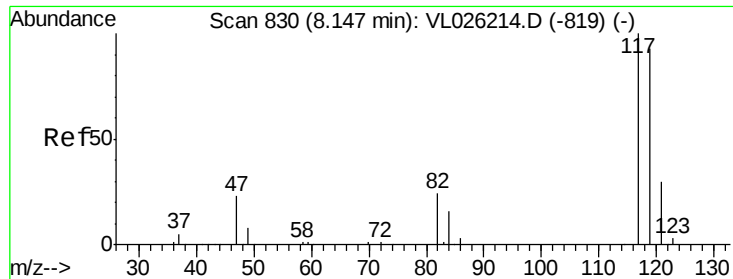
MMDadoda
 10/22/2015 4:31:05 PM



#34
 2-Butanone
 Concen: 13.65 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion: 43 Resp: 1360969
 Ion Ratio Lower Upper
 43 100
 72 25.0 20.2 30.4





#35

Carbon Tetrachloride

Concen: 13.62 ppbv

RT: 8.15 min Scan# 830

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 1794312

Ion Ratio Lower Upper

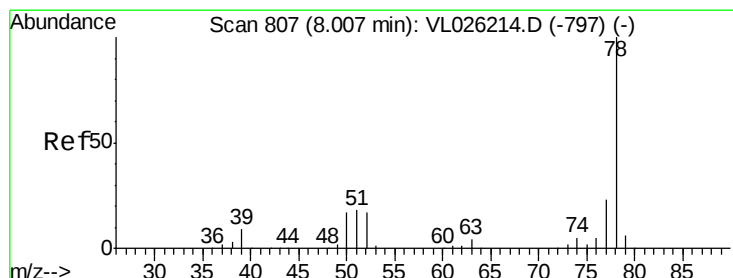
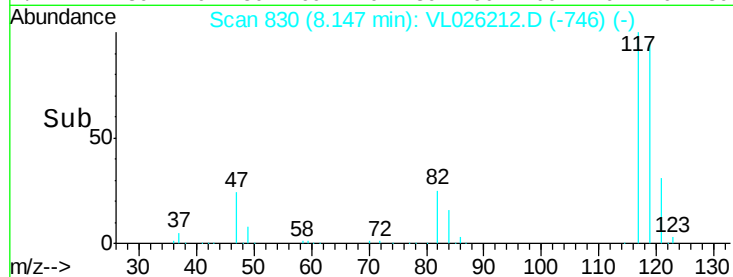
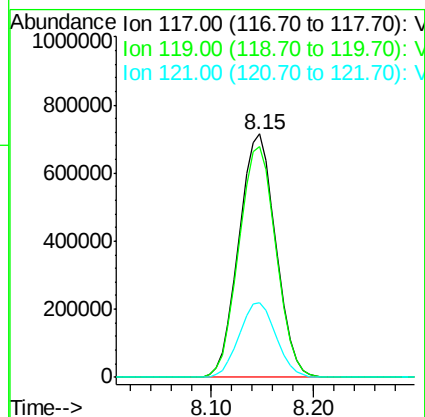
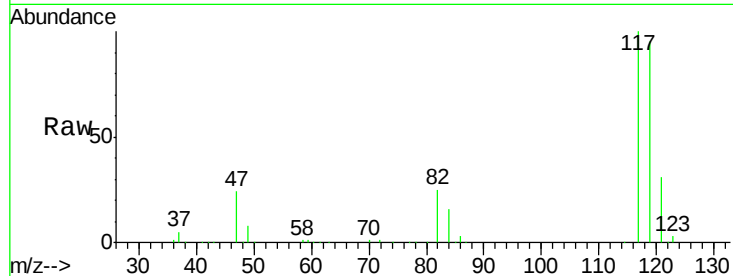
117 100

119 95.0 78.3 117.5

121 30.7 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM



#36

Benzene

Concen: 13.62 ppbv

RT: 8.01 min Scan# 807

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

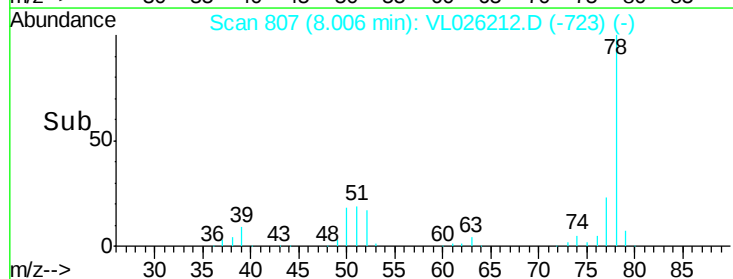
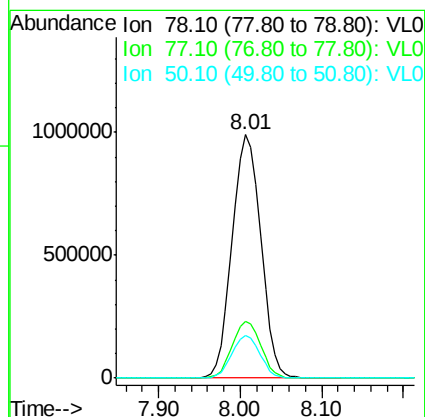
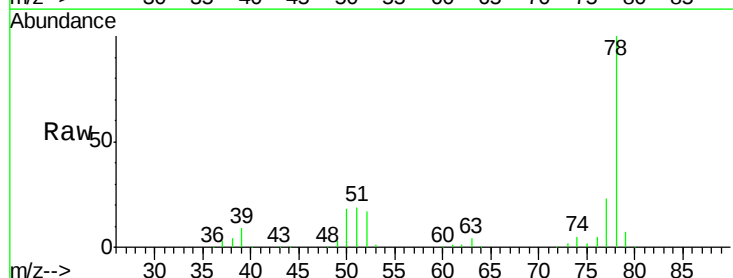
Tgt Ion: 78 Resp: 2416915

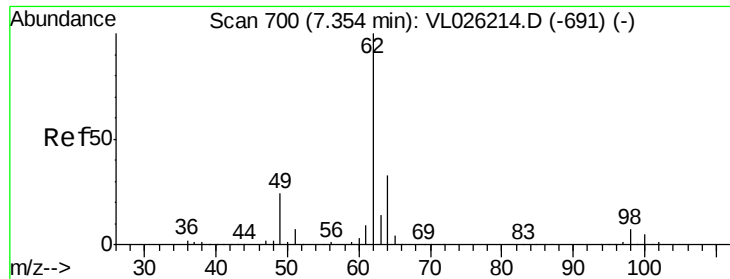
Ion Ratio Lower Upper

78 100

77 23.4 18.1 27.1

50 17.5 13.4 20.0





#37

1,2-Dichloroethane

Concen: 14.46 ppbv

RT: 7.36 min Scan# 701

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1311979

Ion Ratio Lower Upper

62 100

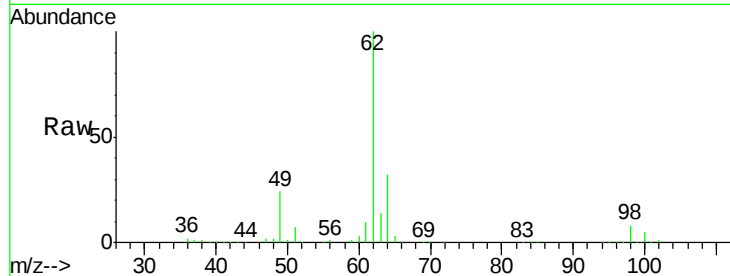
98 7.7 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:31:05 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

7.36

600000

500000

400000

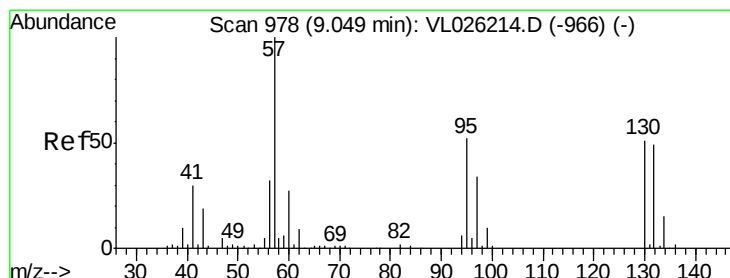
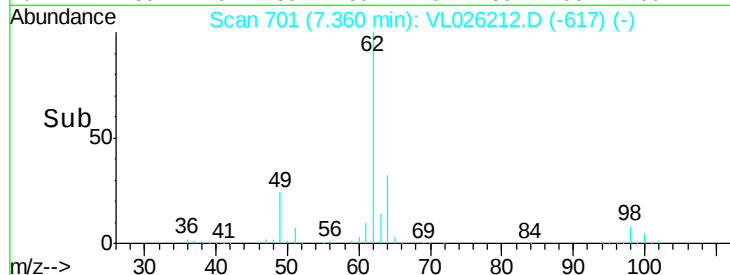
300000

200000

100000

0

Time-->



#38

Trichloroethene

Concen: 11.52 ppbv

RT: 9.05 min Scan# 978

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion:130 Resp: 986574

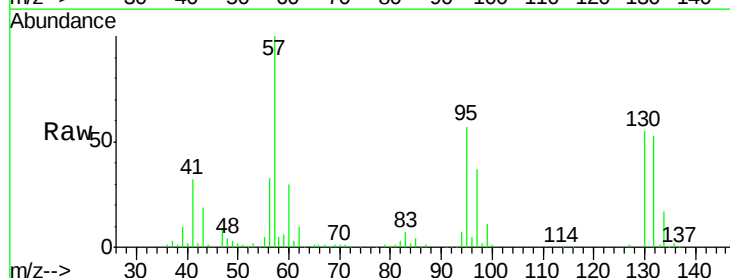
Ion Ratio Lower Upper

130 100

95 103.7 84.2 126.2

132 97.0 78.5 117.7

97 67.0 53.7 80.5



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

600000

500000

400000

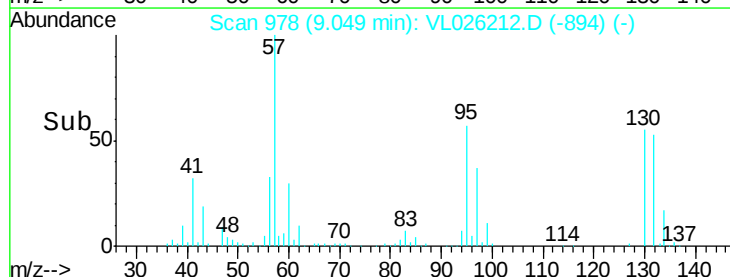
300000

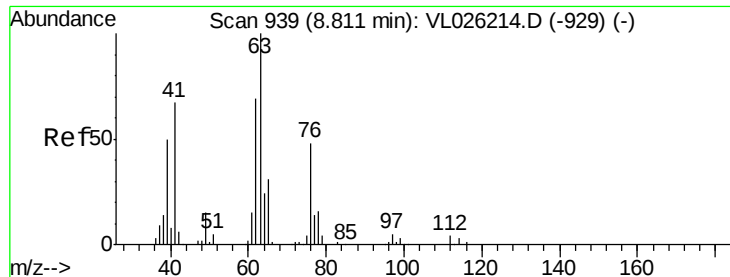
200000

100000

0

Time-->





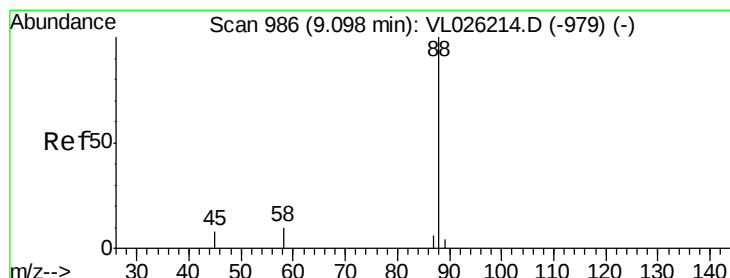
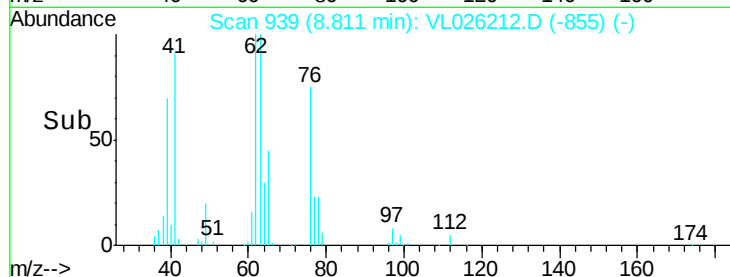
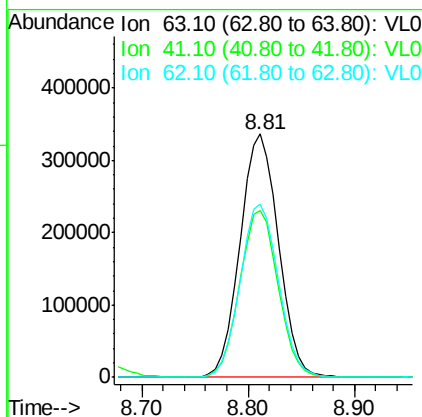
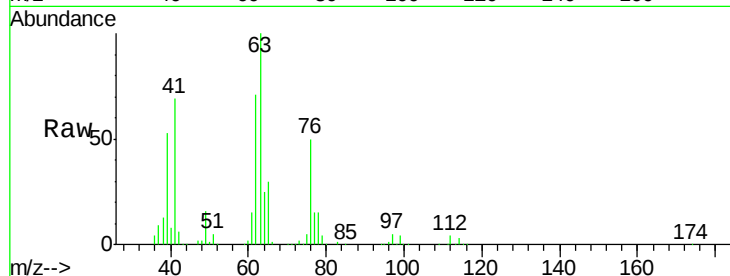
#39
 1,2-Dichloropropane
 Concen: 13.59 ppbv
 RT: 8.81 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.4	54.0	81.0
62	71.1	56.7	85.1

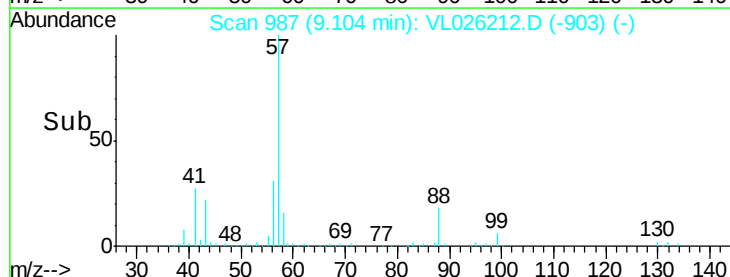
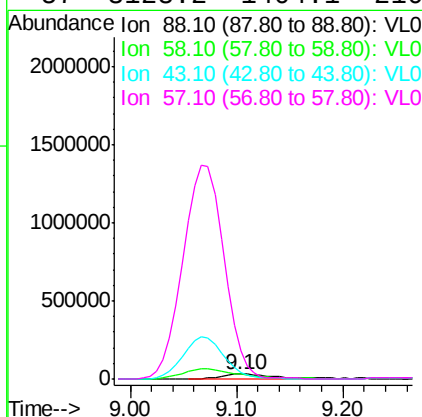
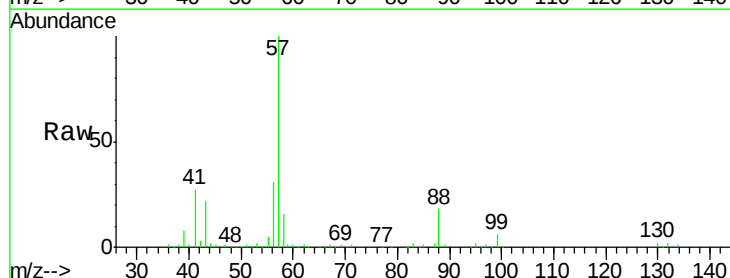
Manual Integrations
 APPROVED

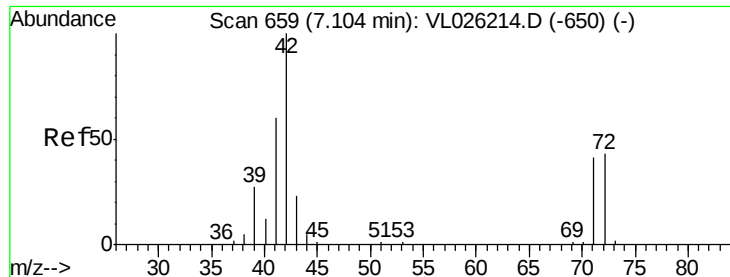
MMDadoda
 10/22/2015 4:31:05 PM



#40
 1,4-Dioxane
 Concen: 9.18 ppbv
 RT: 9.10 min Scan# 987
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
88	100		
58	211.2	115.9	173.9#
43	616.3	279.4	419.0#
57	3128.2	1404.1	2106.1#





#41

Tetrahydrofuran

Concen: 13.92 ppbv

RT: 7.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

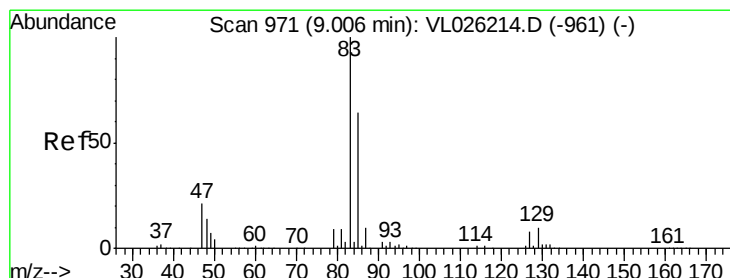
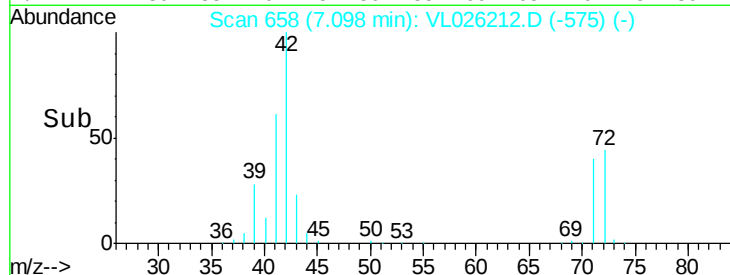
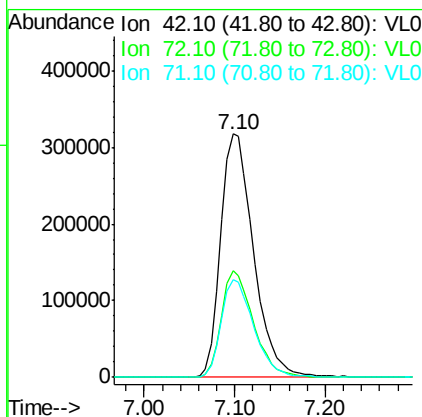
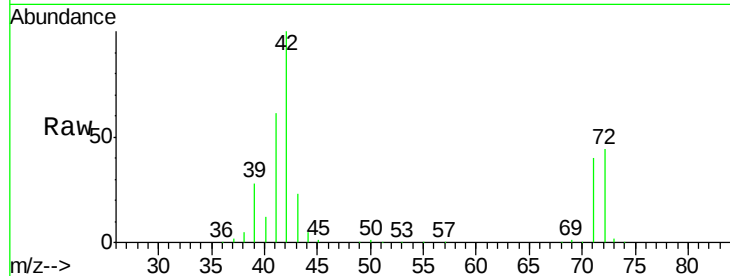
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	805074
Ion	Ratio	Lower	Upper
42	100		
72	42.6	33.8	50.6
71	39.8	32.3	48.5

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM



#42

Bromodichloromethane

Concen: 14.06 ppbv

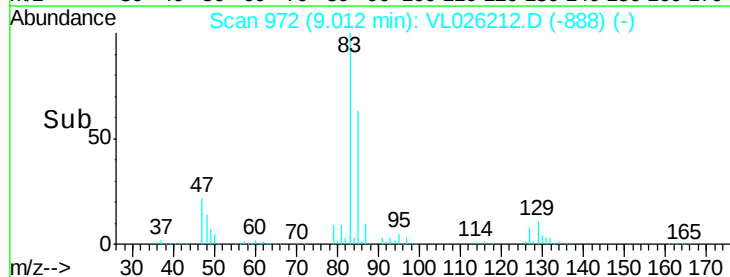
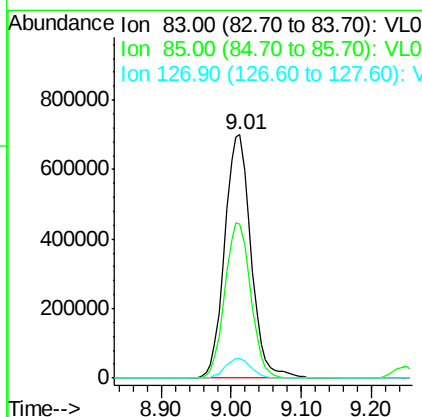
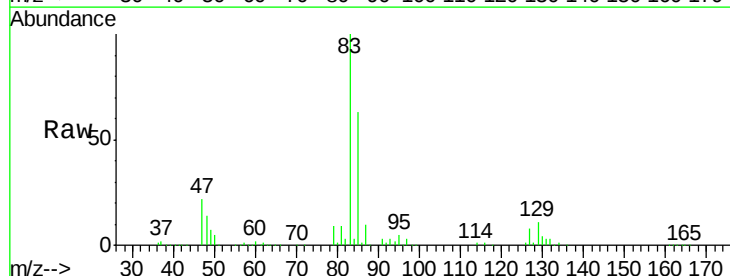
RT: 9.01 min Scan# 972

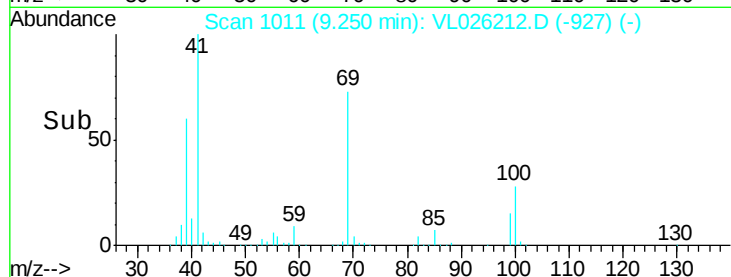
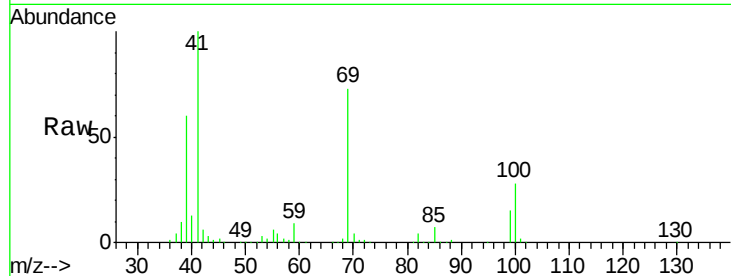
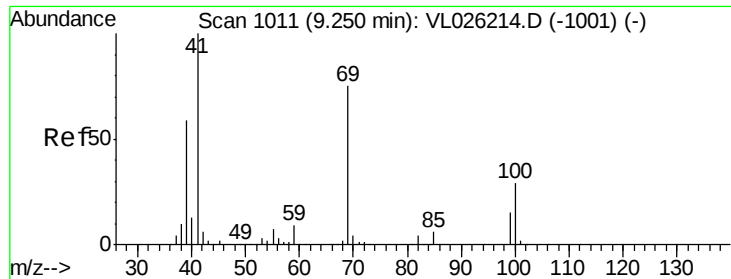
Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion:	83	Resp:	1829624
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.6	75.8
127	8.3	6.5	9.7





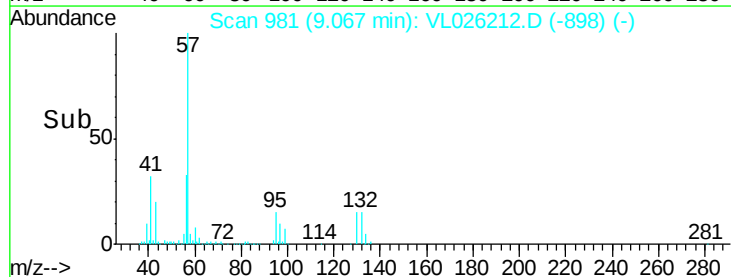
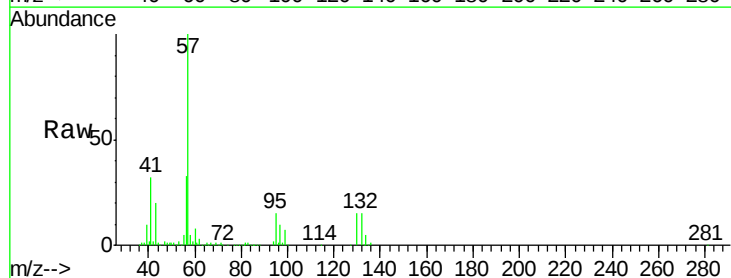
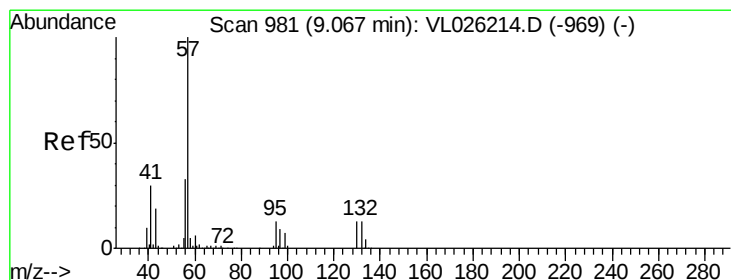
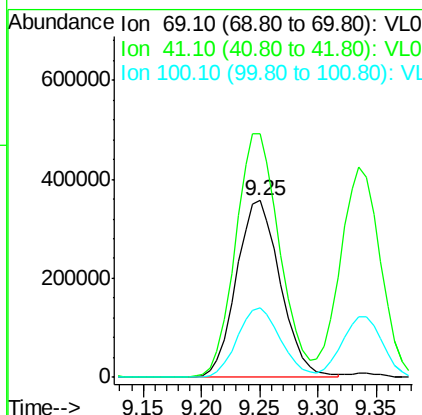
#43
Methvl Methacrilate
Concen: 14.56 ppbv
RT: 9.25 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tot Ion	Ratio	Lower	Upper
69	100		
41	136.5	109.0	163.4
100	38.4	31.0	46.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

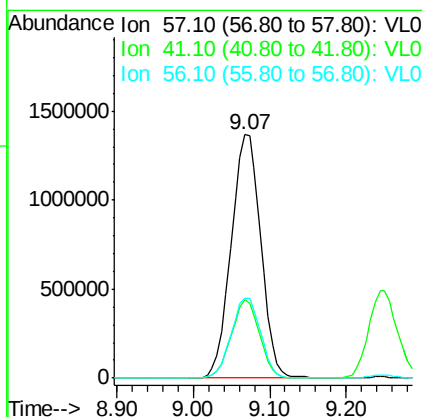
Manual Integrations
APPROVED

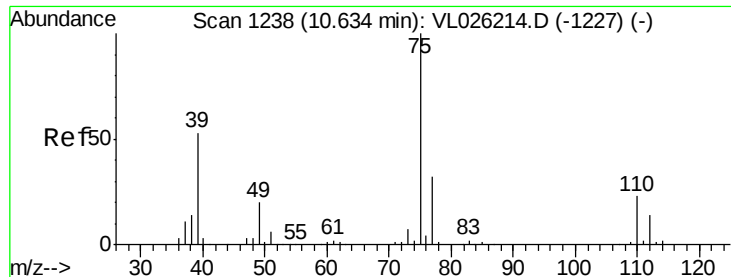
MMDadoda
10/22/2015 4:31:05 PM



#44
2,2,4-Trimethylpentane
Concen: 12.80 ppbv
RT: 9.07 min Scan# 981
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.5	24.0	36.0
56	32.7	26.6	39.8





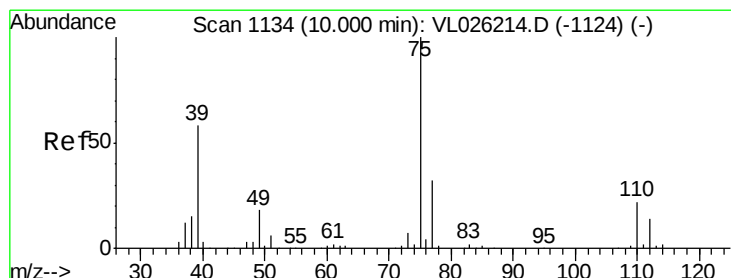
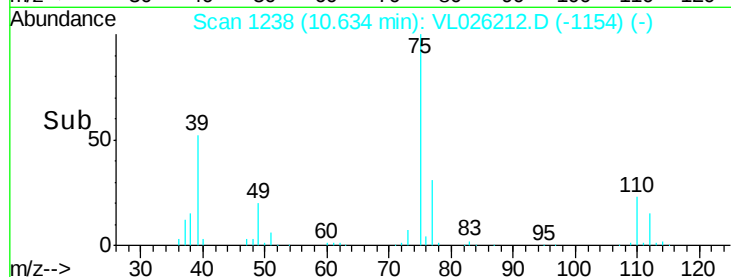
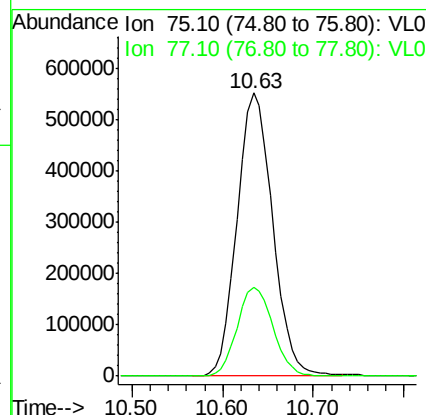
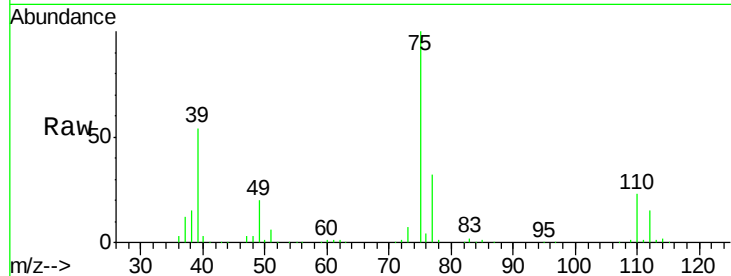
#45
 t-1,3-Dichloropropene
 Concen: 15.18 ppbv
 RT: 10.63 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 1506117
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.5 38.3

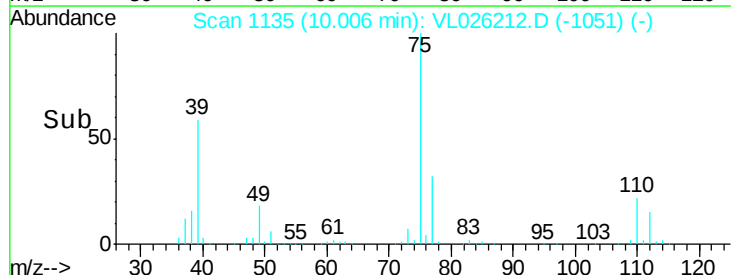
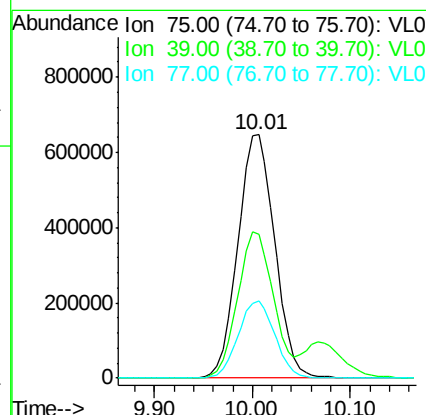
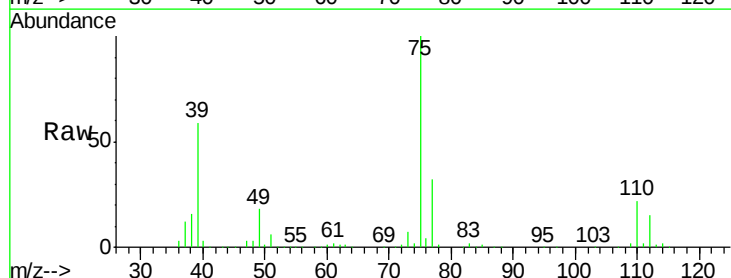
Manual Integrations
 APPROVED

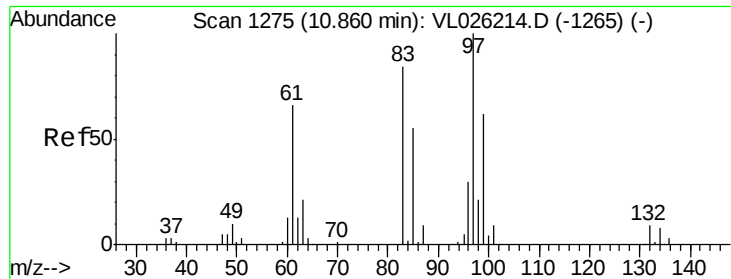
MMDadoda
 10/22/2015 4:31:05 PM



#46
 cis-1,3-Dichloropropene
 Concen: 14.49 ppbv
 RT: 10.01 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion: 75 Resp: 1695399
 Ion Ratio Lower Upper
 75 100
 39 59.0 45.3 67.9
 77 31.6 25.3 37.9





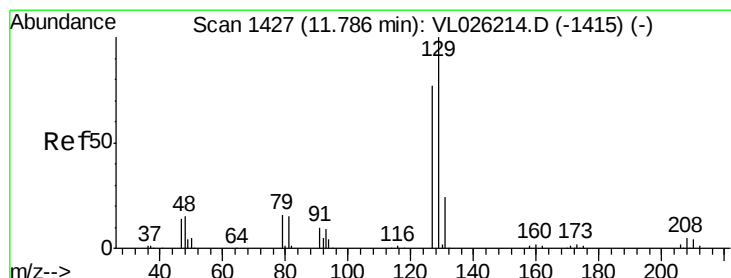
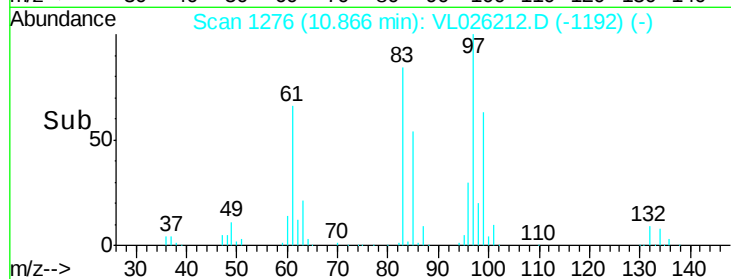
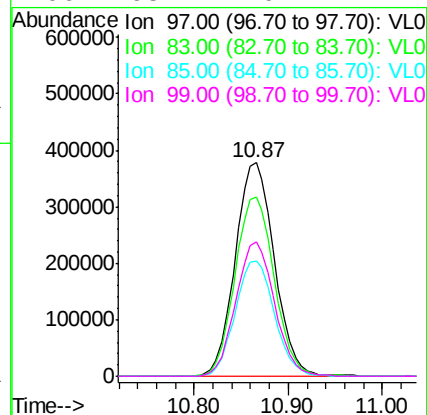
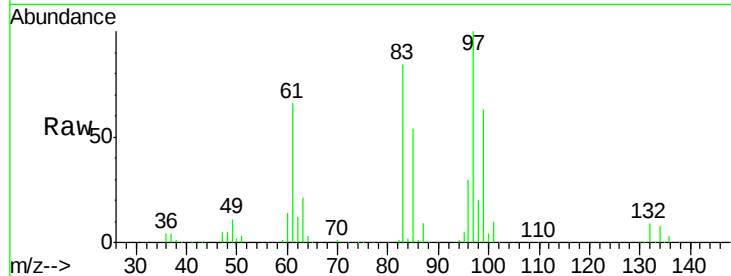
#47
 1,1,2-Trichloroethane
 Concen: 14.11 ppbv
 RT: 10.87 min Scan# 1276
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.9	68.6	103.0
85	53.9	43.5	65.3
99	63.1	49.4	74.2

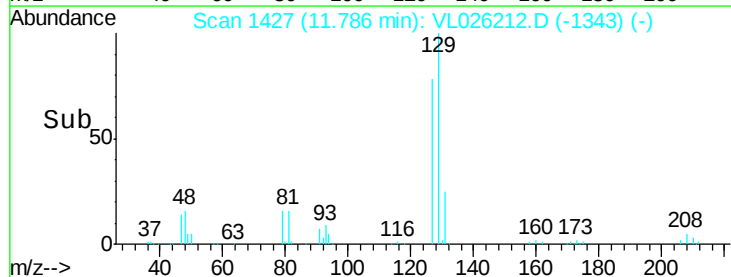
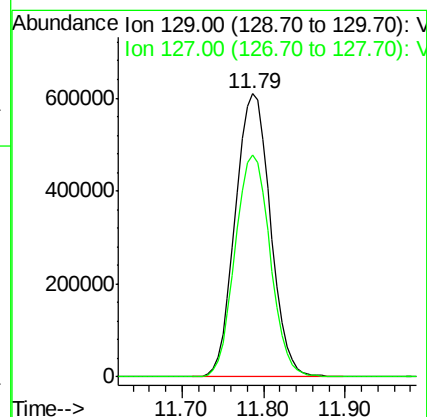
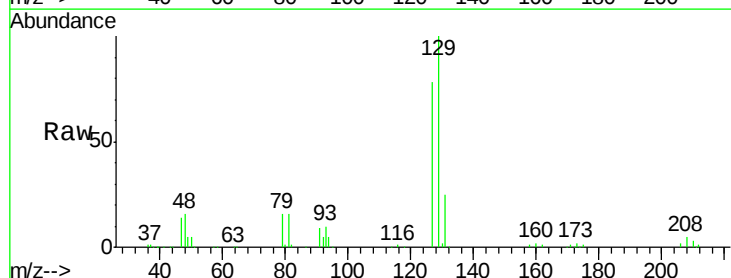
Manual Integrations
 APPROVED

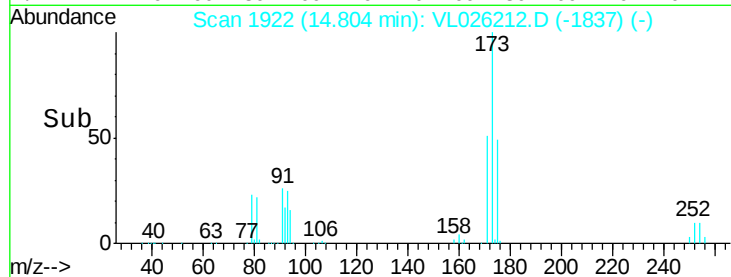
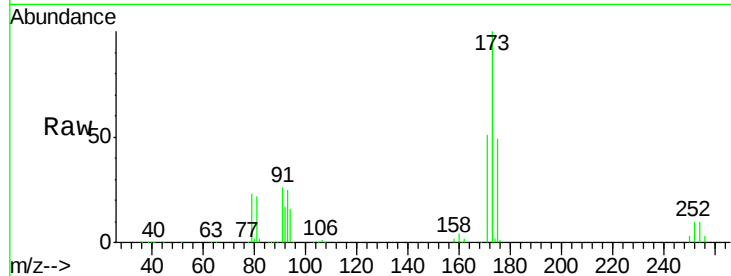
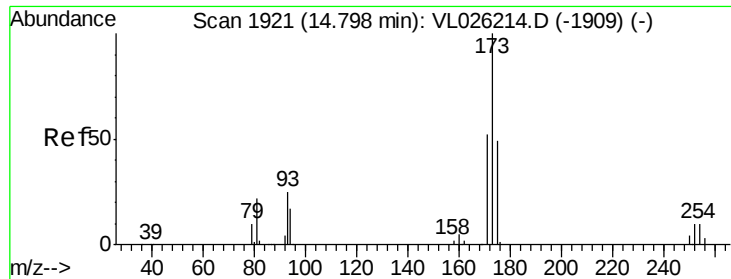
MMDadoda
 10/22/2015 4:31:05 PM



#48
 Dibromochloromethane
 Concen: 14.56 ppbv
 RT: 11.79 min Scan# 1427
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.2	117.6





#49

Bromoform

Concen: 15.00 ppbv

RT: 14.80 min Scan# 1922

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tot Ion: 173 Resp: 1567586

Ion Ratio Lower Upper

173 100

175 48.7 38.7 58.1

171 52.2 41.4 62.0

Instrument :

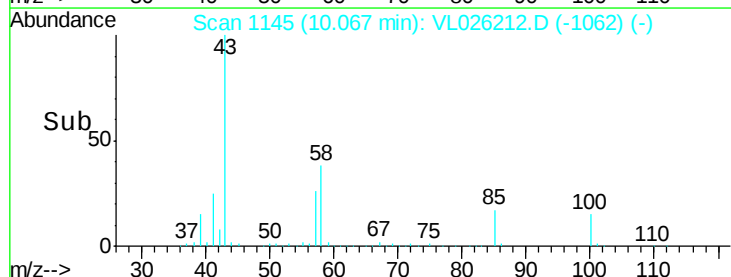
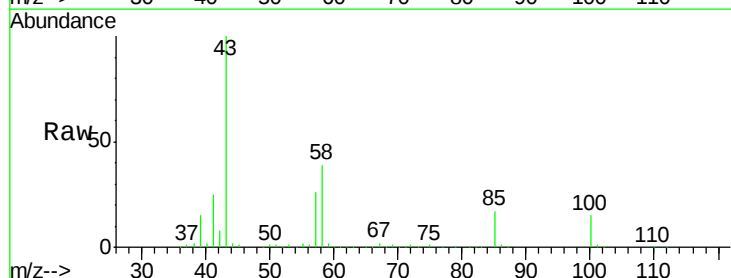
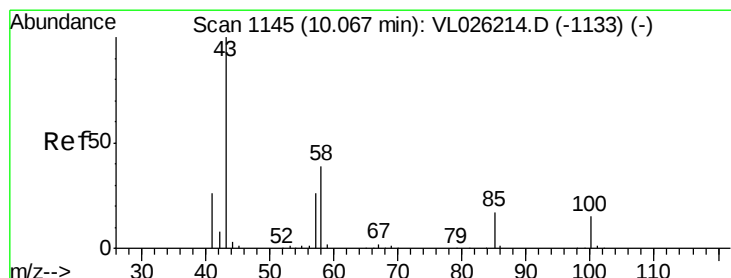
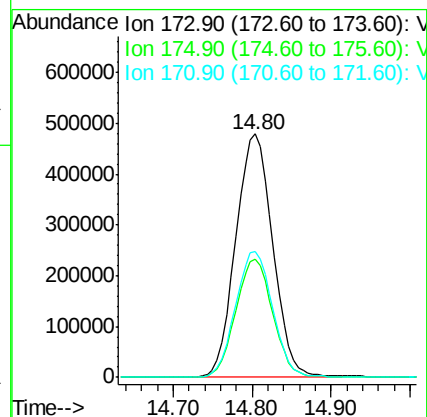
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM



#50

4-Methyl-2-Pentanone

Concen: 14.42 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VL026212.D

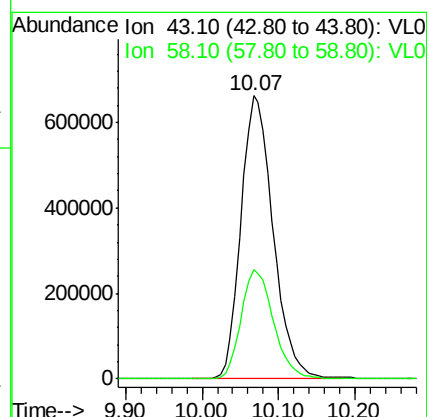
Acq: 20 Oct 2015 14:43

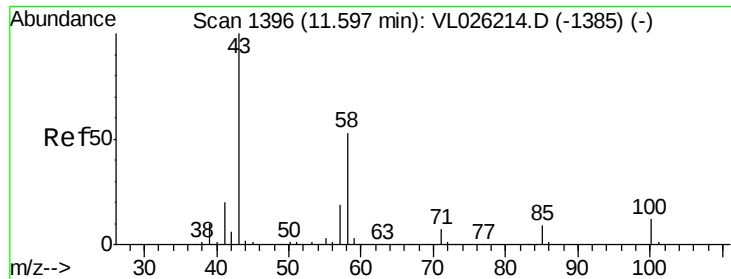
Tgt Ion: 43 Resp: 1928830

Ion Ratio Lower Upper

43 100

58 39.1 31.3 46.9





#51

2-Hexanone

Concen: 15.21 ppbv

RT: 11.60 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1879463

Ion Ratio Lower Upper

43 100

58 53.8 43.9 65.9

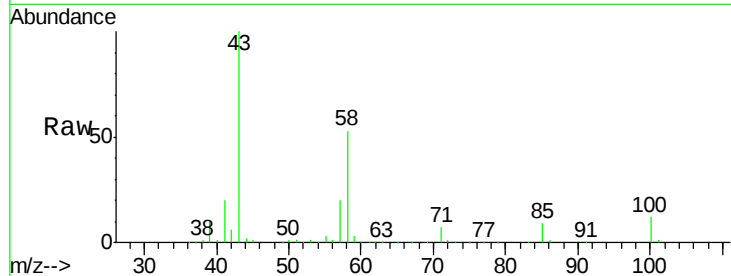
98 0.0 0.1 0.1#

Manual Integrations

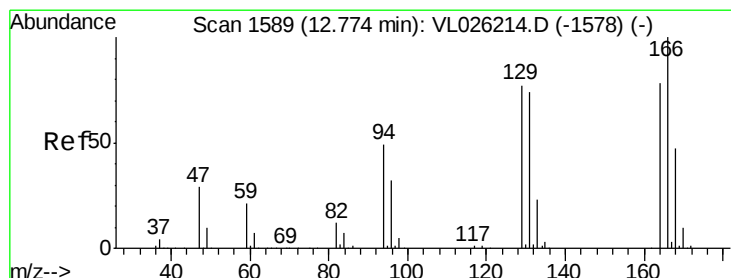
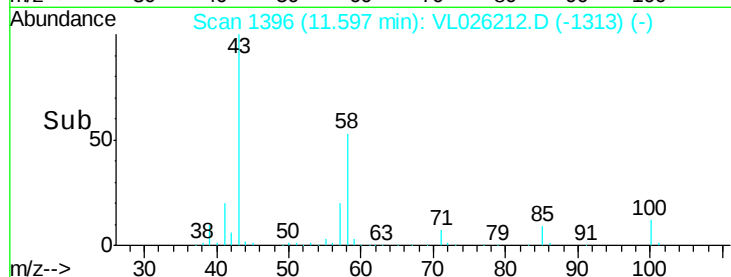
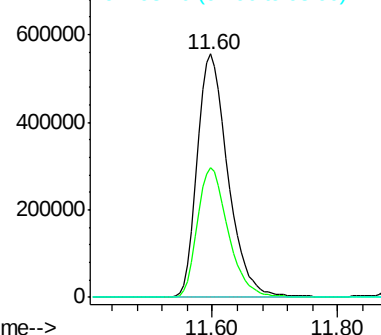
APPROVED

MMDadoda

10/22/2015 4:31:05 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.03 ppbv

RT: 12.77 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion: 164 Resp: 1111068

Ion Ratio Lower Upper

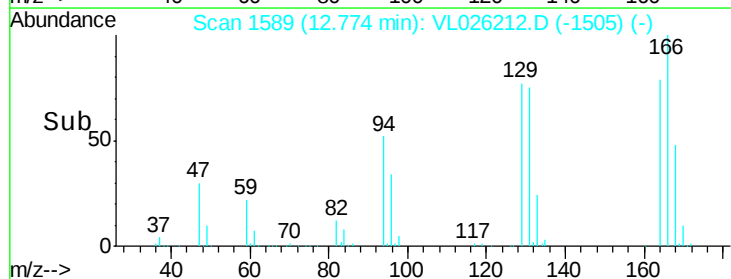
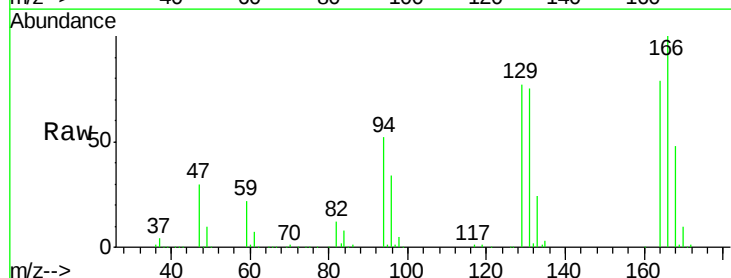
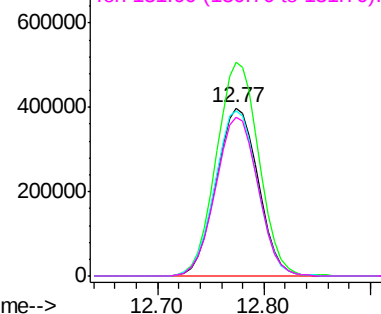
164 100

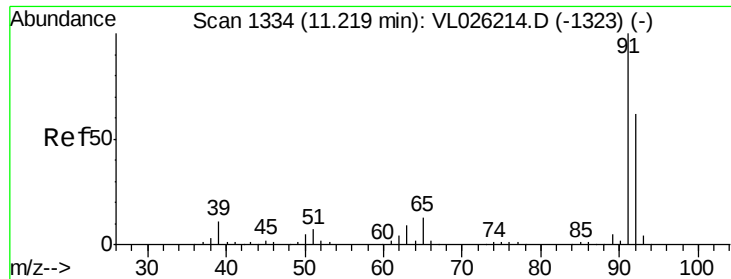
166 127.0 100.9 151.3

129 98.3 79.7 119.5

131 94.7 75.5 113.3

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 13.75 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3281624

Ion Ratio Lower Upper

91 100

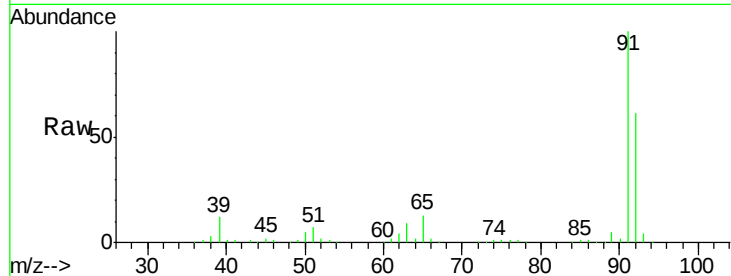
92 61.2 49.0 73.6

Manual Integrations

APPROVED

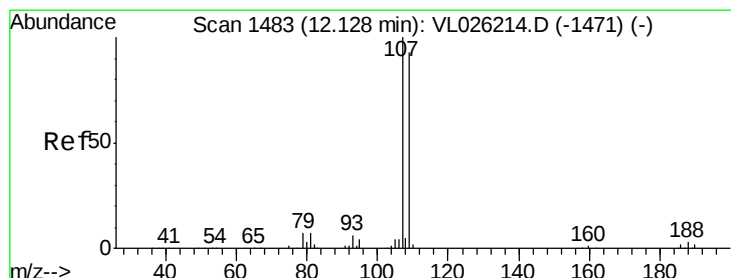
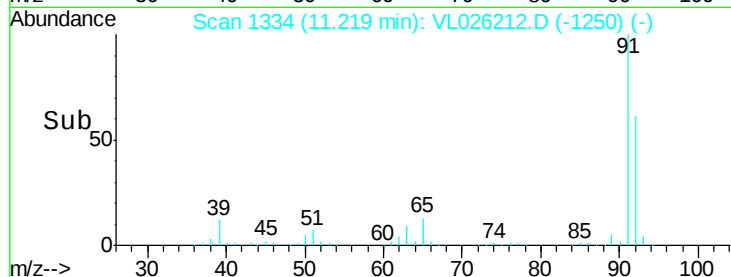
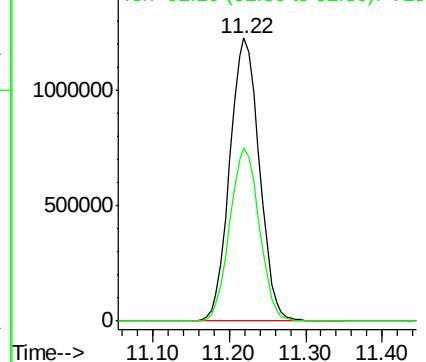
MMDadoda

10/22/2015 4:31:05 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 14.22 ppbv

RT: 12.13 min Scan# 1483

Delta R.T. 0.01 min

Lab File: VL026212.D

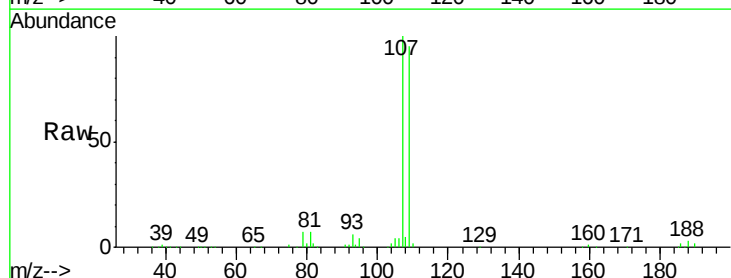
Acq: 20 Oct 2015 14:43

Tgt Ion: 107 Resp: 1702870

Ion Ratio Lower Upper

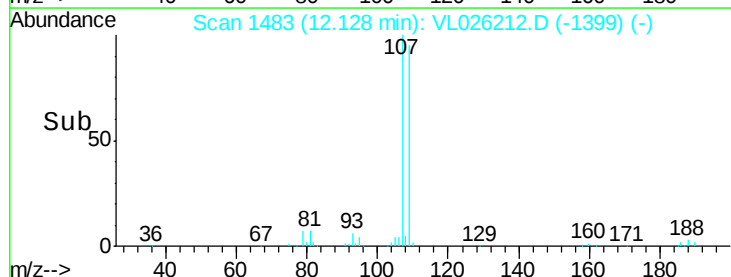
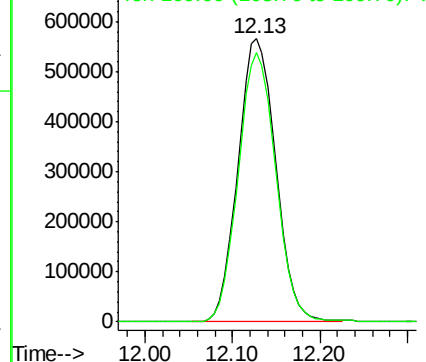
107 100

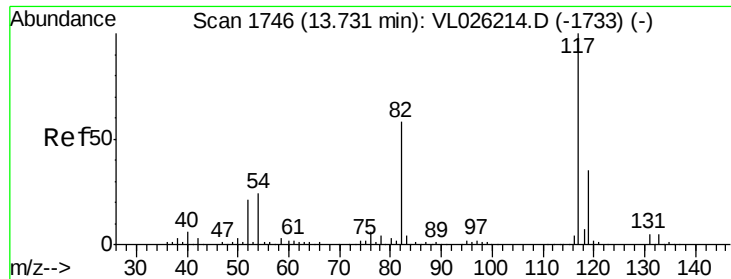
109 95.0 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





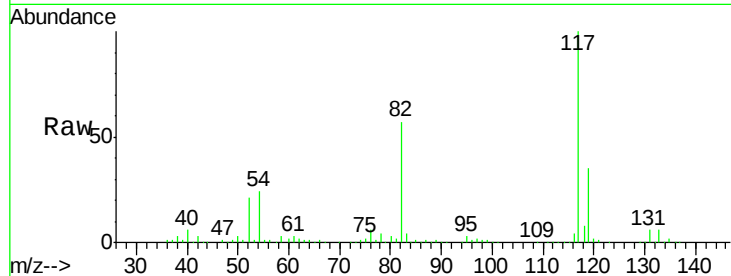
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.73 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

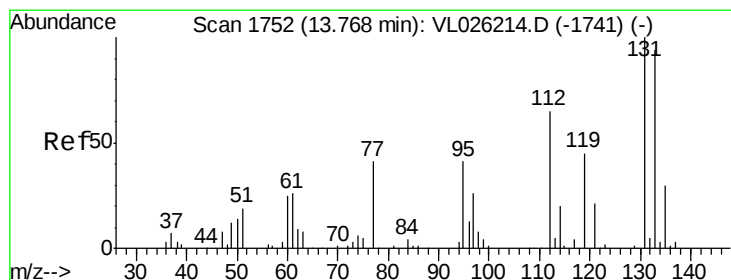
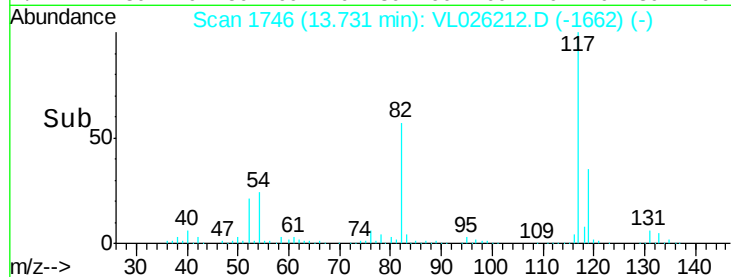
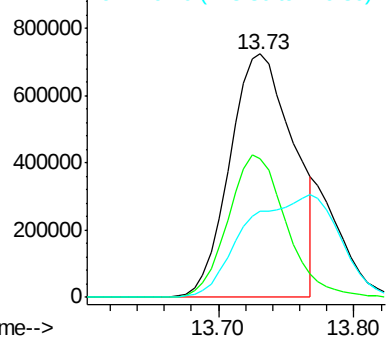
Tot Ion:117 Resp: 2371584
Ion Ratio Lower Upper
117 100
82 53.6 46.3 69.5
119 62.3 45.0 67.4

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM

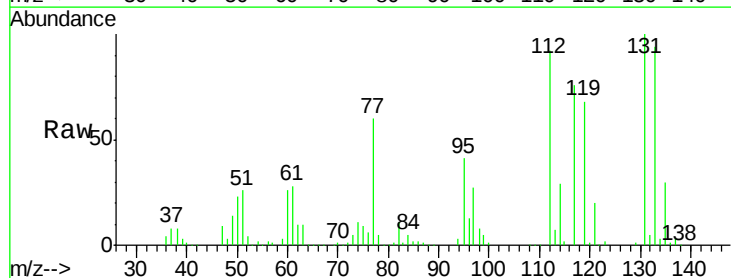


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

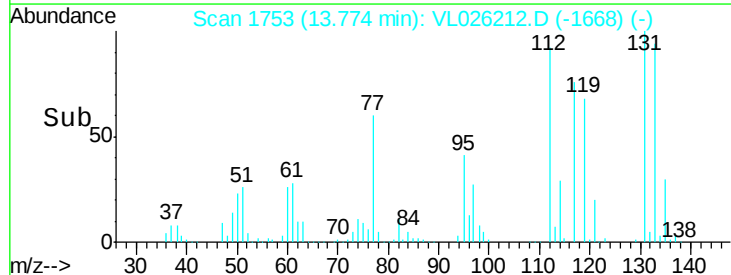
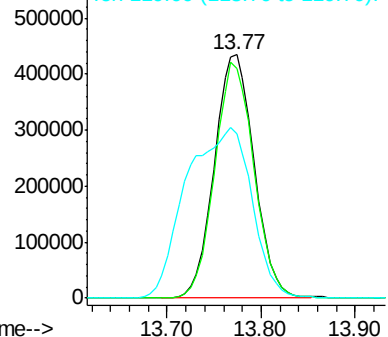


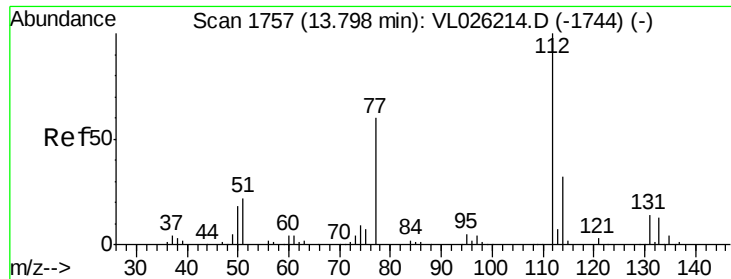
#56
1,1,1,2-Tetrachloroethane
Concen: 11.32 ppbv
RT: 13.77 min Scan# 1753
Delta R.T. 0.02 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion:131 Resp: 1282437
Ion Ratio Lower Upper
131 100
133 96.0 76.1 114.1
119 115.2 109.4 164.2



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





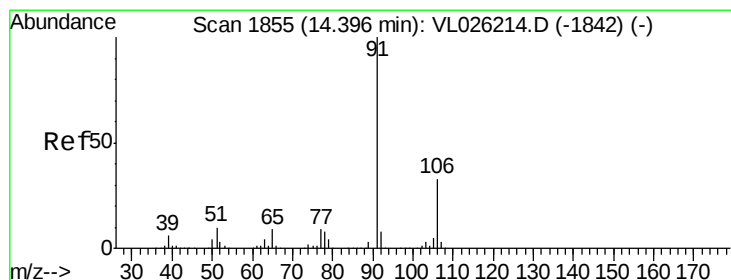
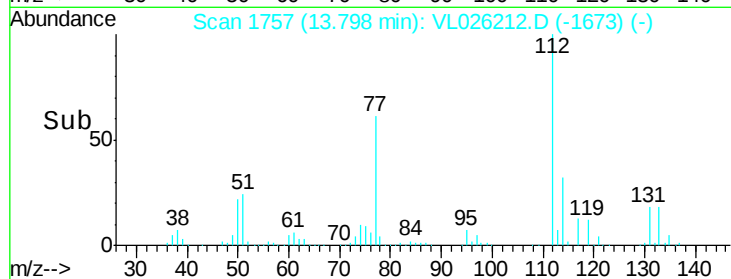
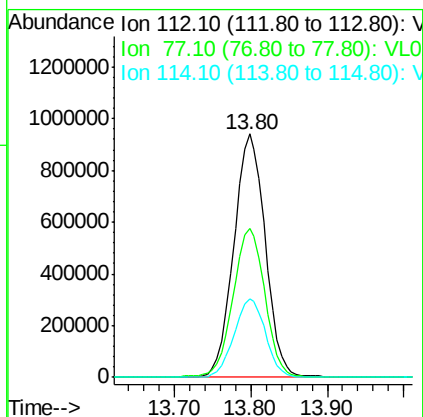
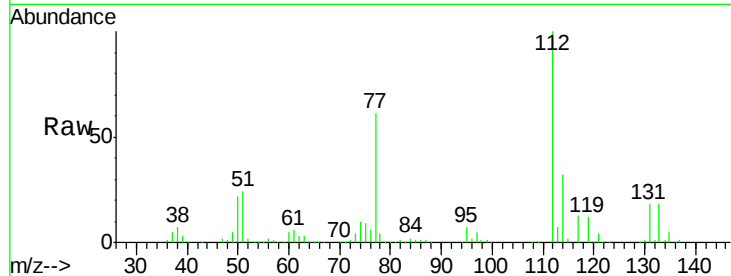
#57
Chlorobenzene
Concen: 11.85 ppbv
RT: 13.80 min Scan# 1757
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 112 Resp: 2681765
Ion Ratio Lower Upper
112 100
77 60.8 48.2 72.4
114 32.1 29.0 35.4

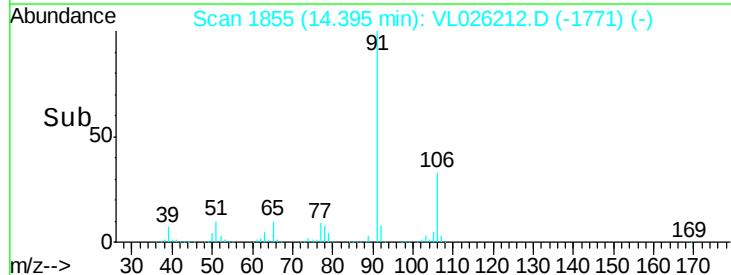
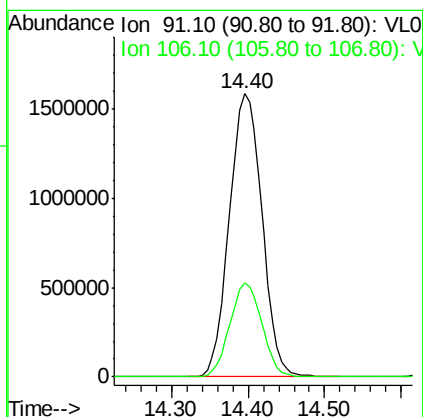
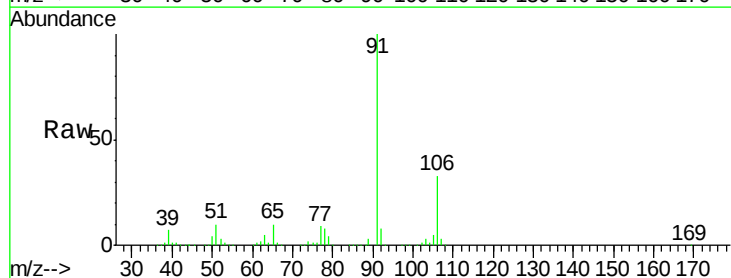
Manual Integrations
APPROVED

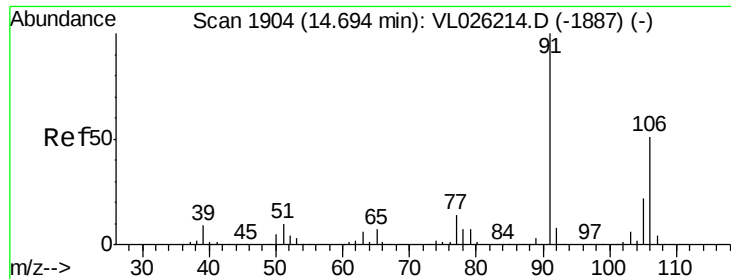
MMDadoda
10/22/2015 4:31:05 PM



#58
Ethyl Benzene
Concen: 12.26 ppbv
RT: 14.40 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion: 91 Resp: 4697757
Ion Ratio Lower Upper
91 100
106 33.0 26.2 39.2





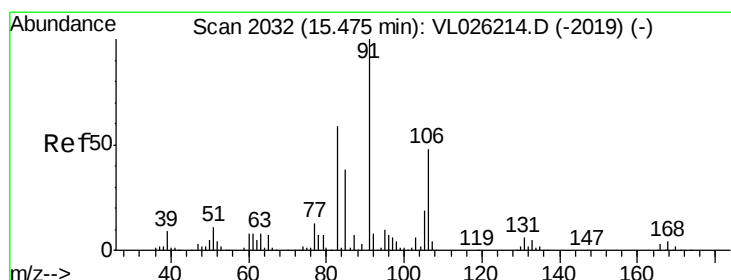
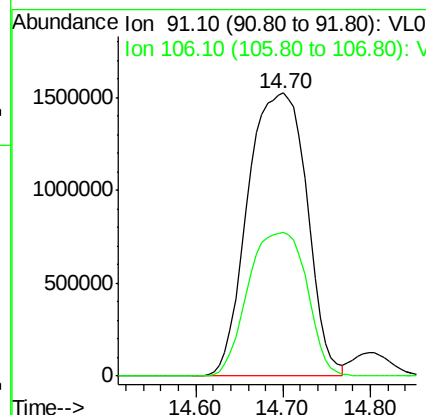
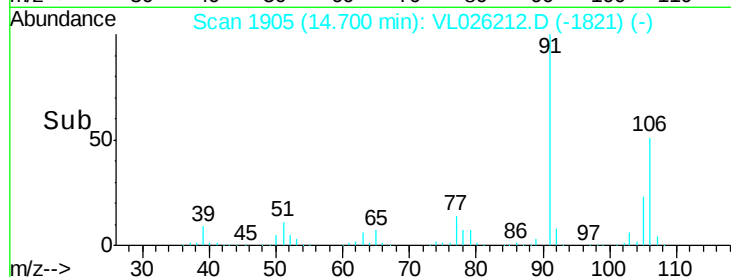
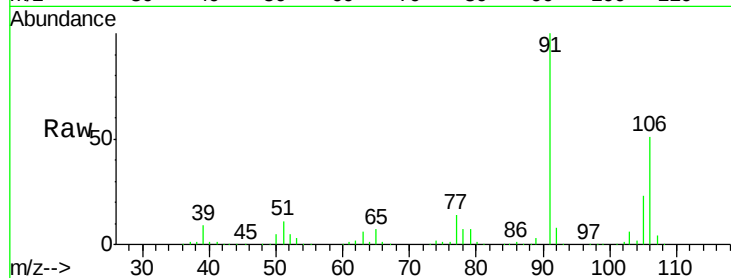
#59
m/p-Xylene
Concen: 23.83 ppbv
RT: 14.70 min Scan# 1905
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 7160461
Ion Ratio Lower Upper
91 100
106 50.9 40.6 60.8

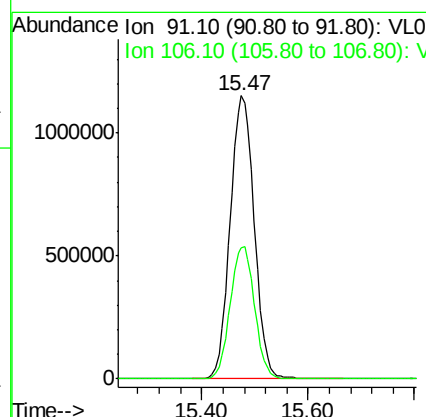
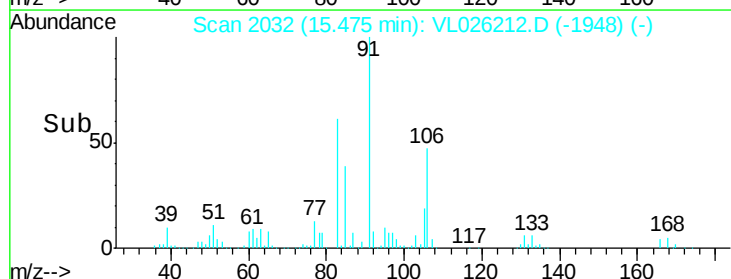
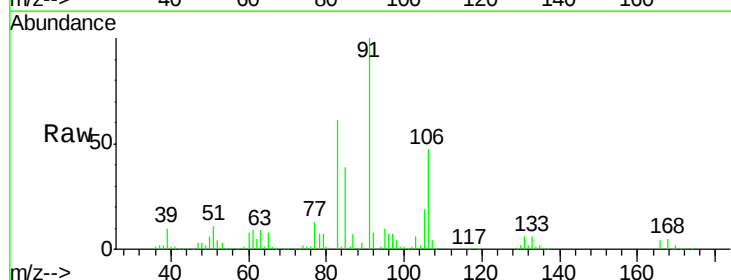
Manual Integrations
APPROVED

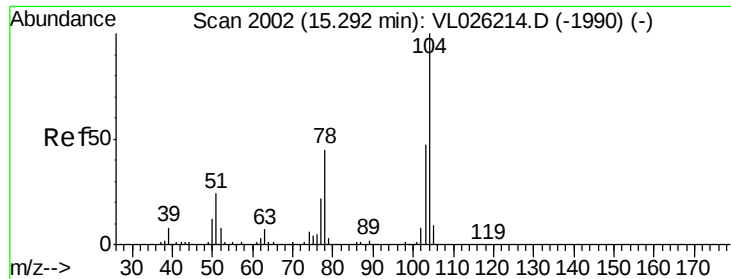
MMDadoda
10/22/2015 4:31:05 PM



#60
o-Xylene
Concen: 11.61 ppbv
RT: 15.47 min Scan# 2032
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion: 91 Resp: 3649224
Ion Ratio Lower Upper
91 100
106 47.2 23.6 71.0





#61

Stvrene

Concen: 13.69 ppbv

RT: 15.29 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 1931379

Ion Ratio Lower Upper

104 100

78 44.5 35.6 53.4

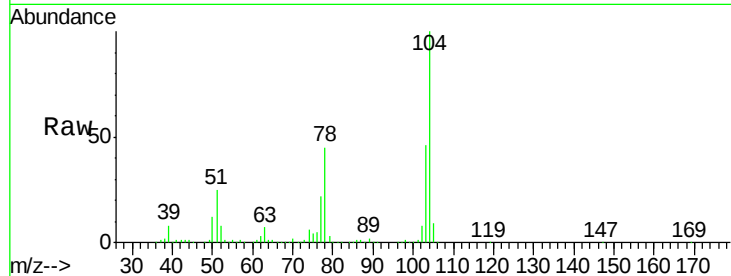
103 46.3 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

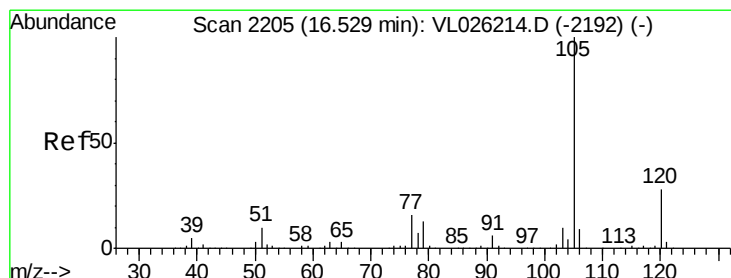
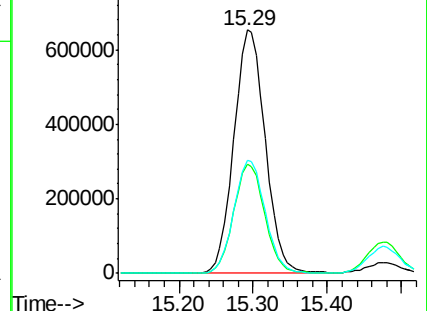
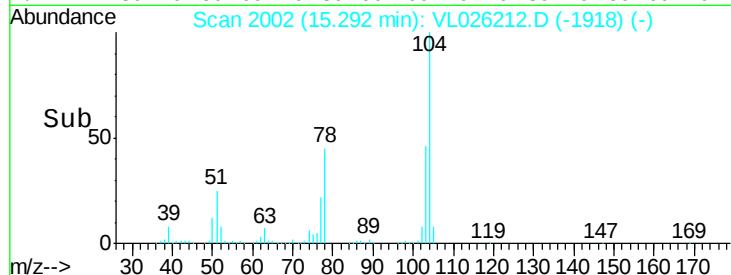
10/22/2015 4:31:05 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 12.08 ppbv

RT: 16.53 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VL026212.D

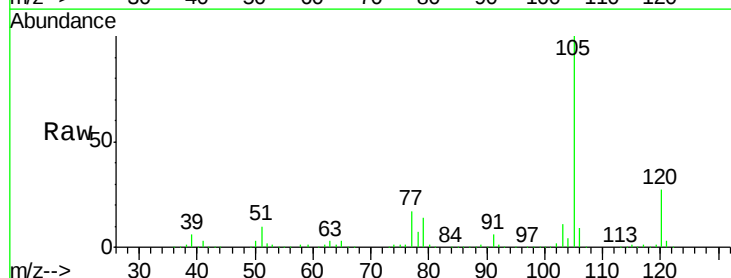
Acq: 20 Oct 2015 14:43

Tgt Ion:105 Resp: 5248429

Ion Ratio Lower Upper

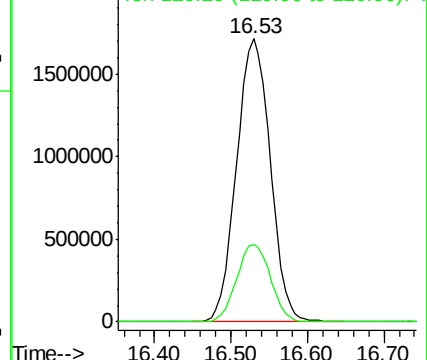
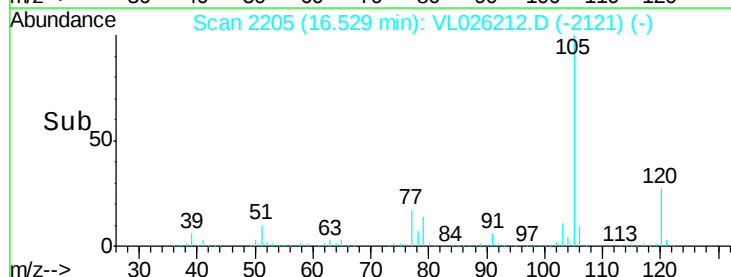
105 100

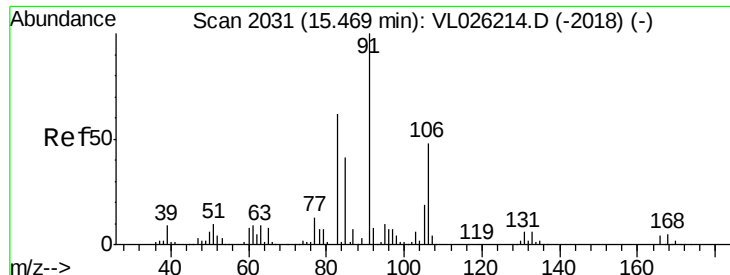
120 27.6 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





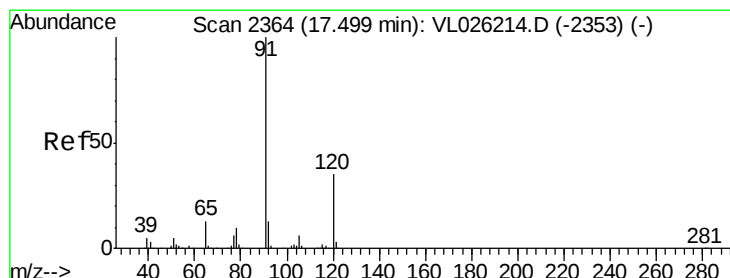
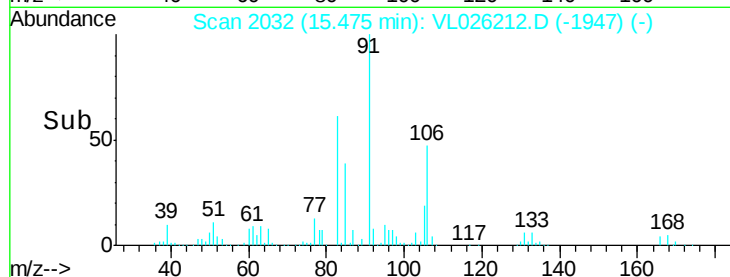
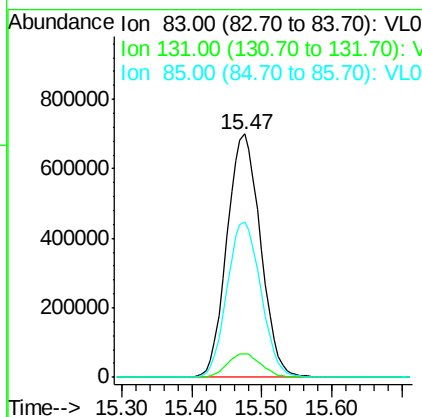
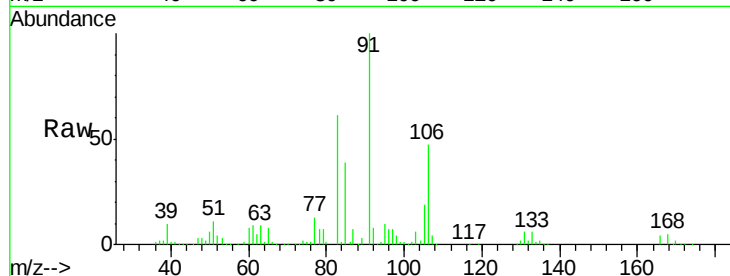
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.19 ppbv
 RT: 15.47 min Scan# 2032
 Delta R.T. 0.02 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 2337897
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.9 14.7
 85 64.7 32.3 96.8

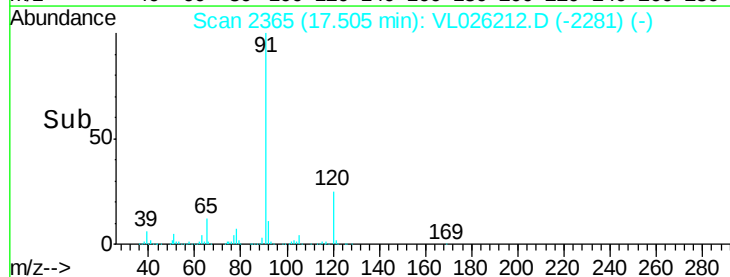
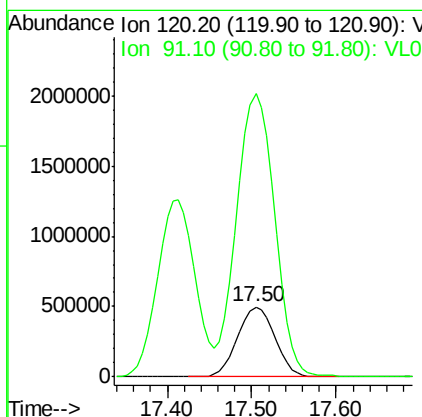
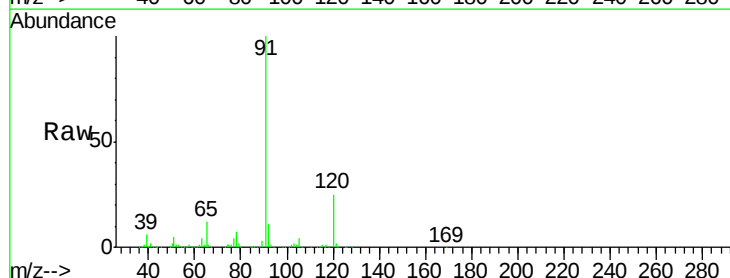
Manual Integrations
 APPROVED

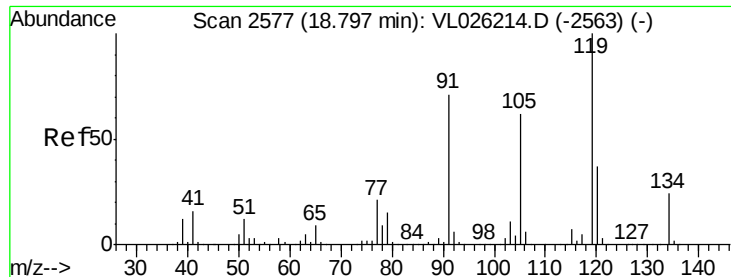
MMDadoda
 10/22/2015 4:31:05 PM



#64
 n-propylbenzene
 Concen: 12.54 ppbv
 RT: 17.50 min Scan# 2365
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion: 120 Resp: 1492212
 Ion Ratio Lower Upper
 120 100
 91 410.3 332.1 498.1





#65

tert-Butylbenzene

Concen: 11.36 ppbv

RT: 18.80 min Scan# 2577

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4509907

Ion Ratio Lower Upper

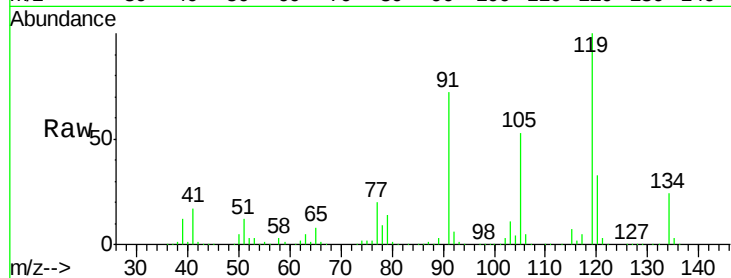
119 100

91 72.6 57.6 86.4

134 22.5 17.8 26.6

Manual Integrations
APPROVED

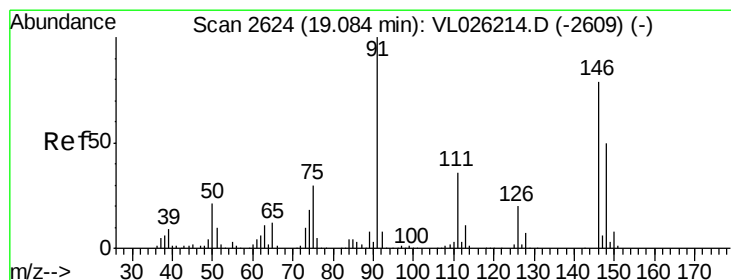
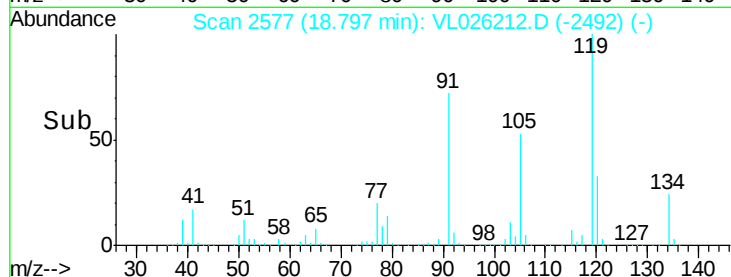
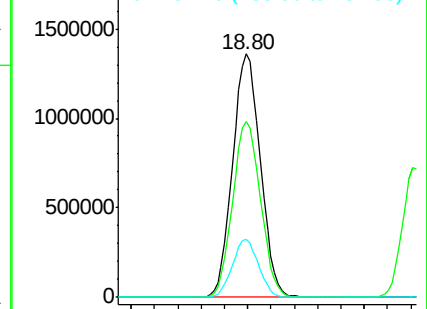
MMDadoda
10/22/2015 4:31:05 PM



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: 13.54 ppbv

RT: 19.08 min Scan# 2624

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

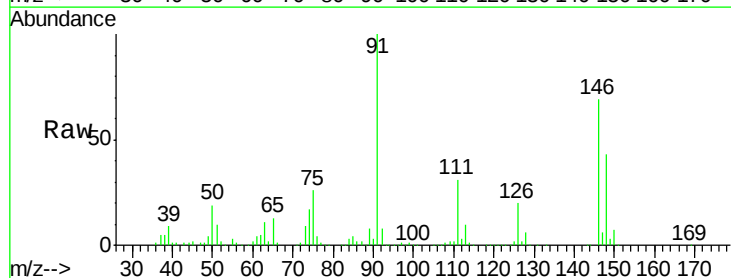
Tgt Ion: 91 Resp: 2167915

Ion Ratio Lower Upper

91 100

126 20.4 16.1 24.1

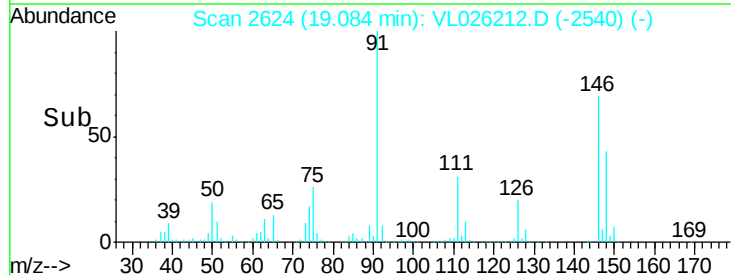
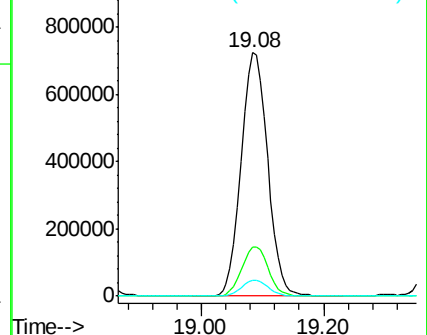
128 6.5 5.1 7.7

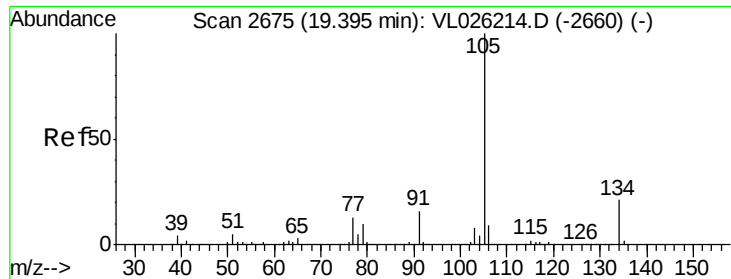


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 11.87 ppbv

RT: 19.39 min Scan# 2675

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 105 Resp: 6534442

Ion Ratio Lower Upper

105 100

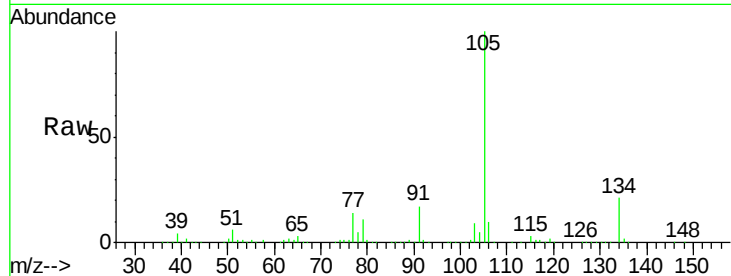
134 20.7

16.3 24.5

Manual Integrations
APPROVED

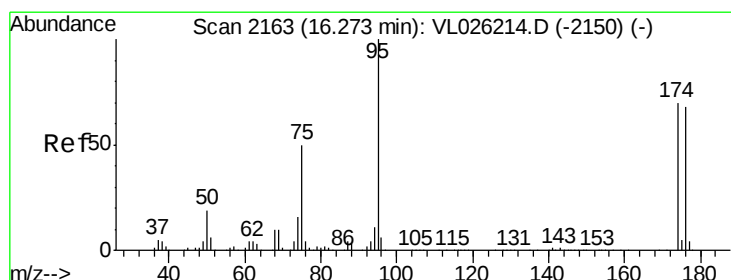
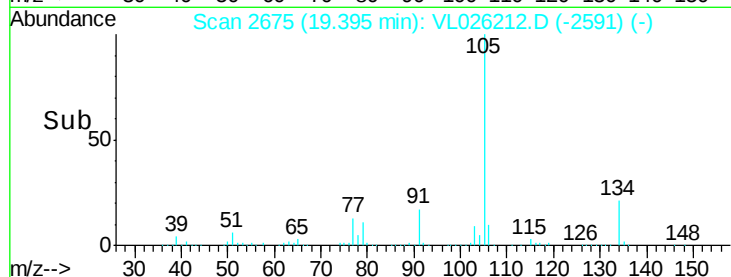
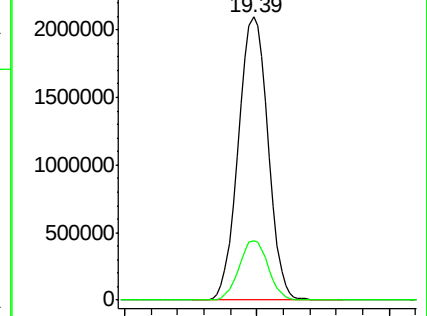
MMDadoda

10/22/2015 4:31:05 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: 9.25 ppbv

RT: 16.27 min Scan# 2163

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion: 95 Resp: 1701138

Ion Ratio Lower Upper

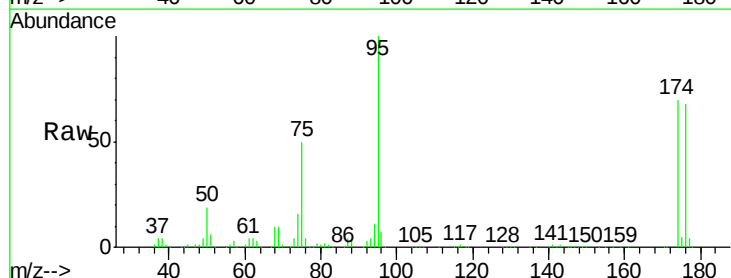
95 100

174 69.3

175 5.4

56.2 84.2

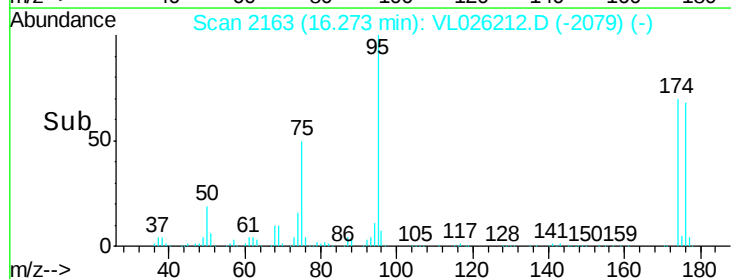
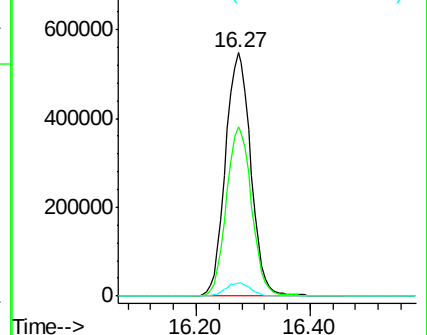
4.3 6.5

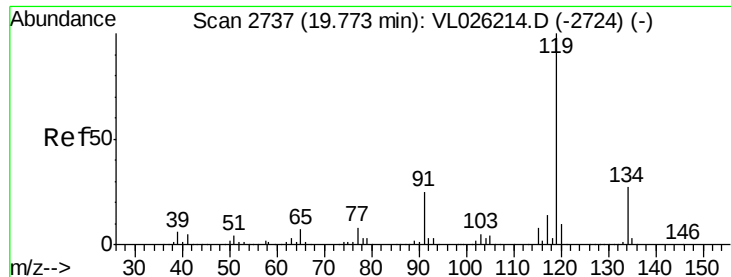


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





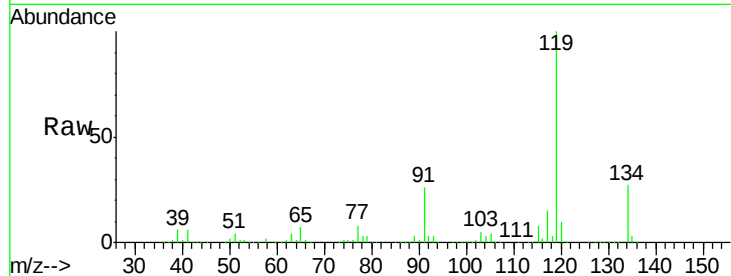
#69
 p-Isopropyltoluene
 Concen: 11.97 ppbv
 RT: 19.77 min Scan# 2737
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

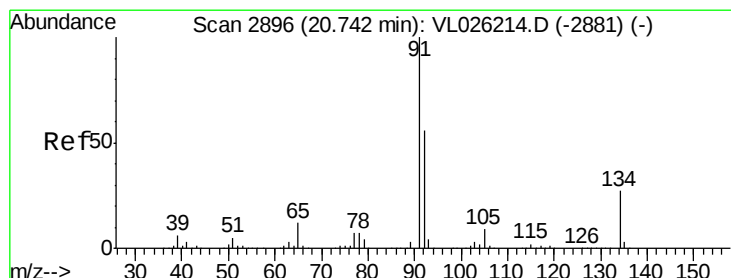
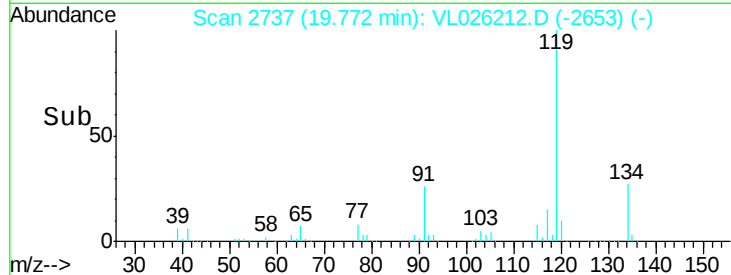
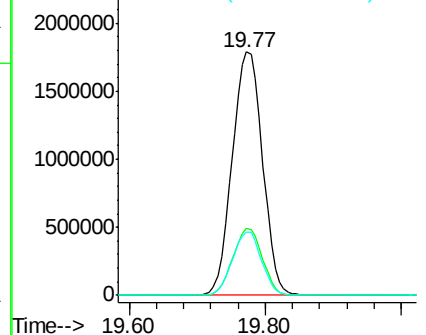
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	21.4	32.0
91	25.2	19.8	29.8

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:05 PM

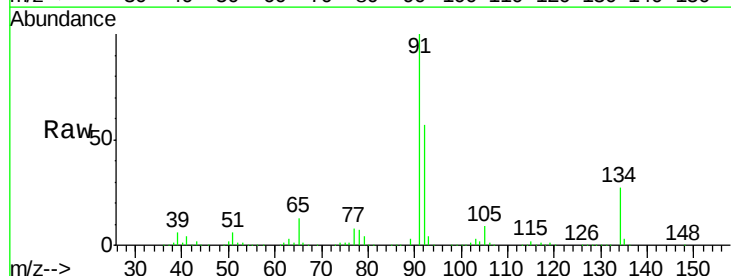


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

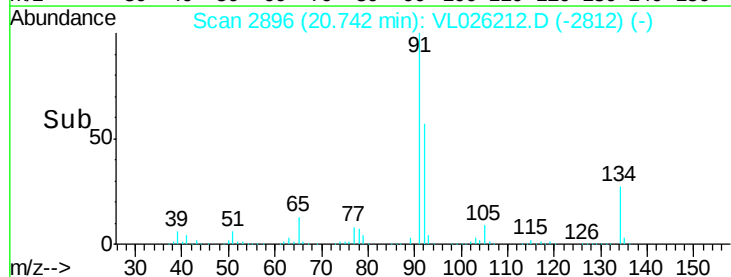
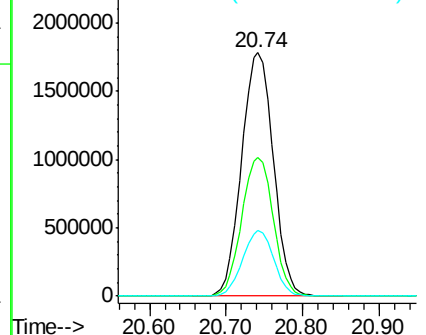


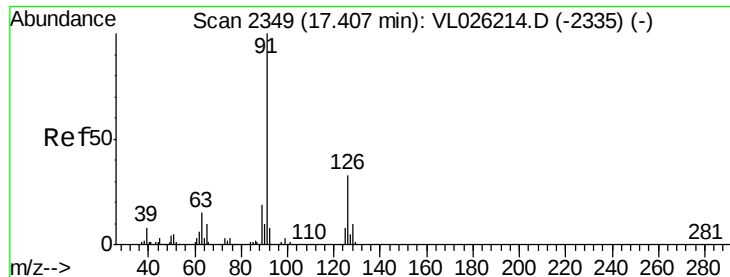
#70
 n-Butylbenzene
 Concen: 12.19 ppbv
 RT: 20.74 min Scan# 2896
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.8	44.7	67.1
134	26.6	21.1	31.7



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





#71

2-Chlorotoluene

Concen: 12.27 ppbv

RT: 17.41 min Scan# 2350

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3932885

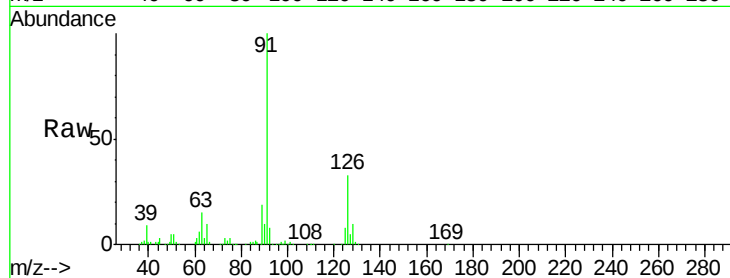
Ion Ratio Lower Upper

91 100

126 33.1 12.9 51.7

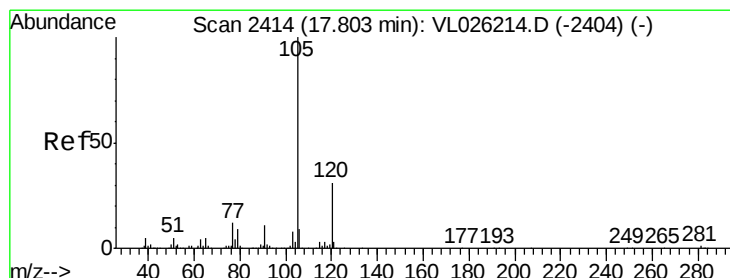
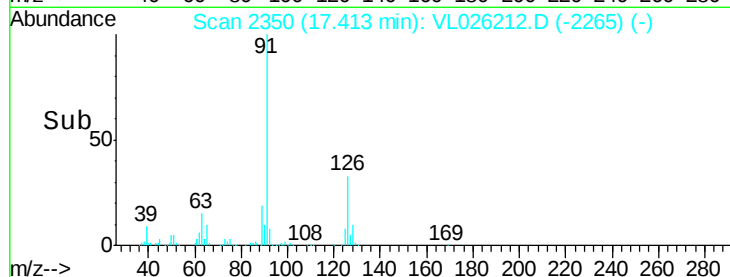
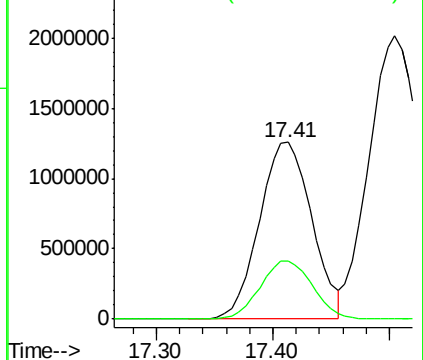
Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 12.53 ppbv

RT: 17.80 min Scan# 2414

Delta R.T. 0.01 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion: 105 Resp: 4548460

Ion Ratio Lower Upper

105 100

120 32.0 25.2 37.8

91 11.5 9.2 13.8

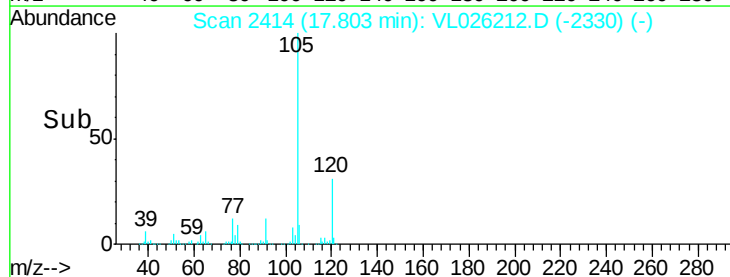
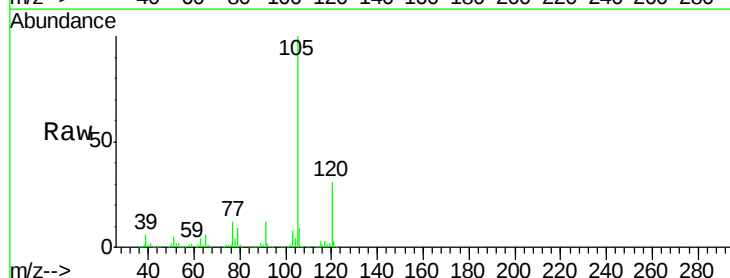
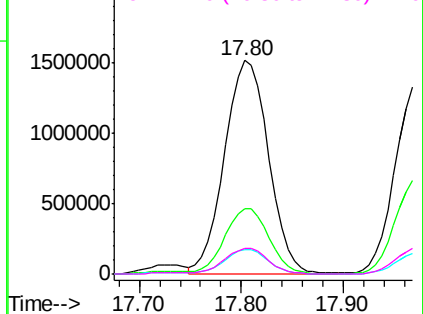
77 12.3 9.5 14.3

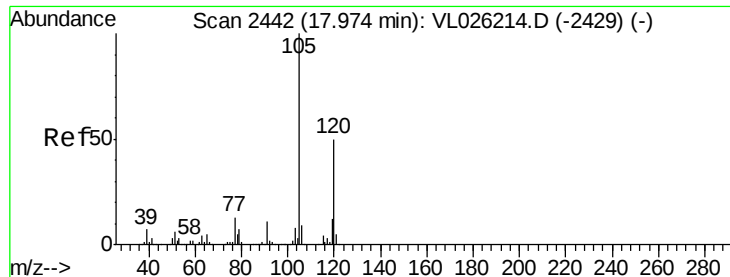
Abundance Ion 105.10 (104.80 to 105.80): V

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: 12.44 ppbv

RT: 17.97 min Scan# 2442

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 4216459

Ion Ratio Lower Upper

105 100

120 50.2

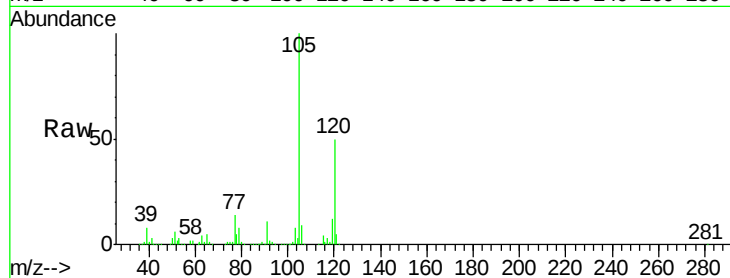
40.3 60.5

Manual Integrations

APPROVED

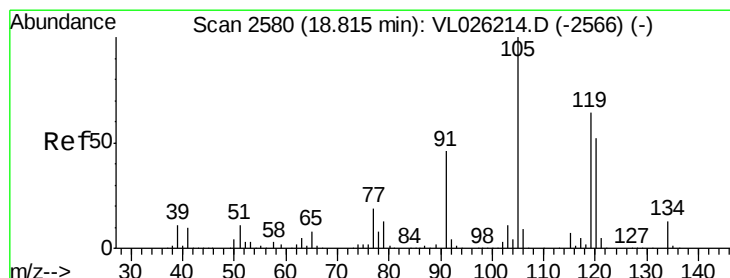
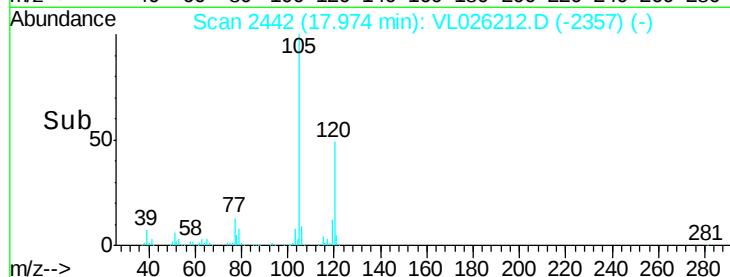
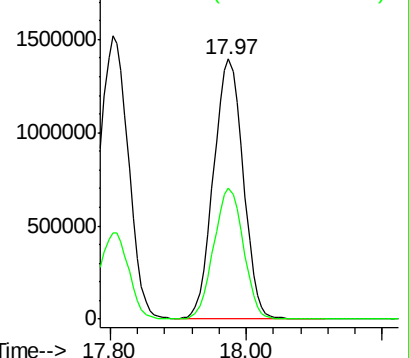
MMDadoda

10/22/2015 4:31:05 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: 11.34 ppbv

RT: 18.82 min Scan# 2581

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Tgt Ion:105 Resp: 3998271

Ion Ratio Lower Upper

105 100

120 50.8

40.5 60.7

91 41.6

37.4 56.0

77 18.8

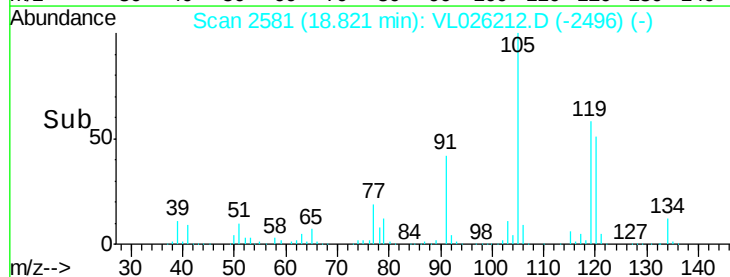
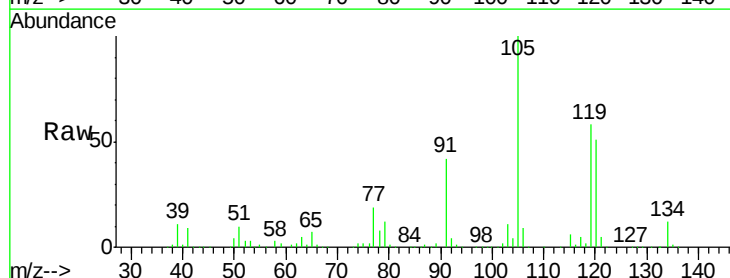
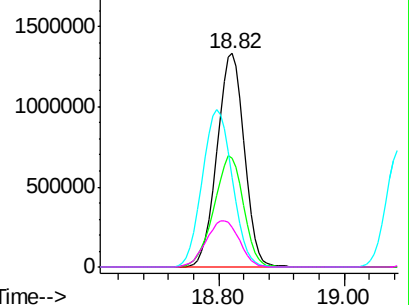
15.3 22.9

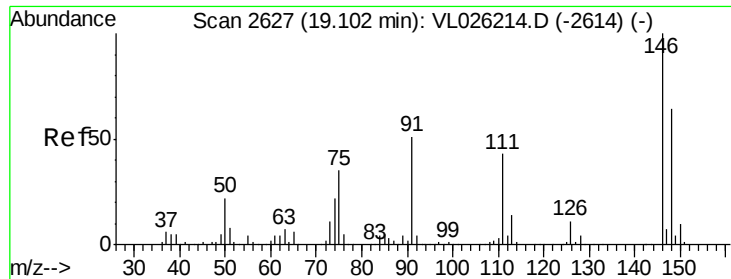
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 12.05 ppbv

RT: 19.11 min Scan# 2628

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2756508

Ion Ratio Lower Upper

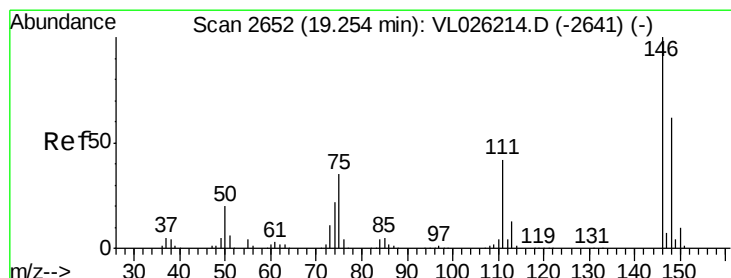
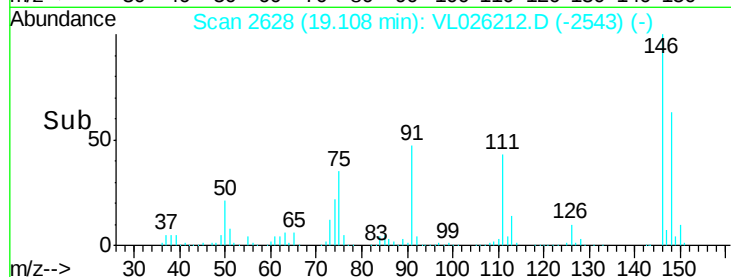
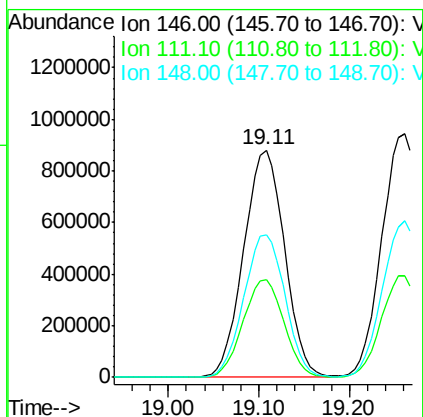
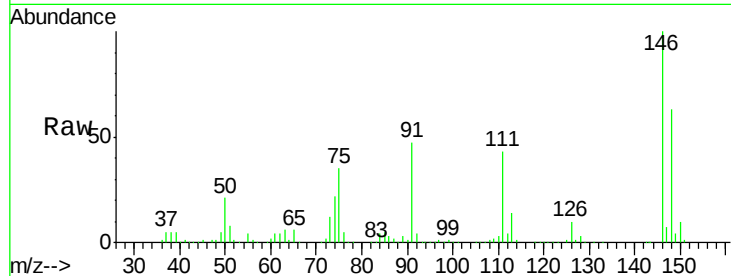
146 100

111 43.1 21.6 65.0

148 63.4 31.7 95.1

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:31:05 PM



#76

1,4-Dichlorobenzene

Concen: 12.30 ppbv

RT: 19.26 min Scan# 2653

Delta R.T. 0.02 min

Lab File: VL026212.D

Acq: 20 Oct 2015 14:43

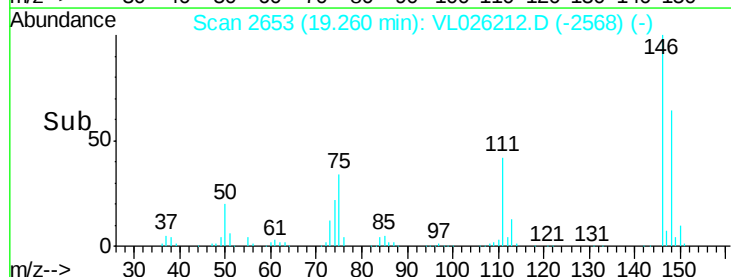
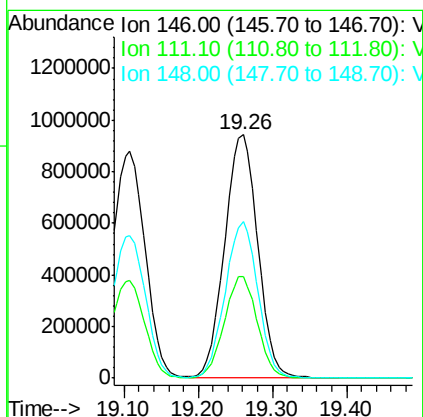
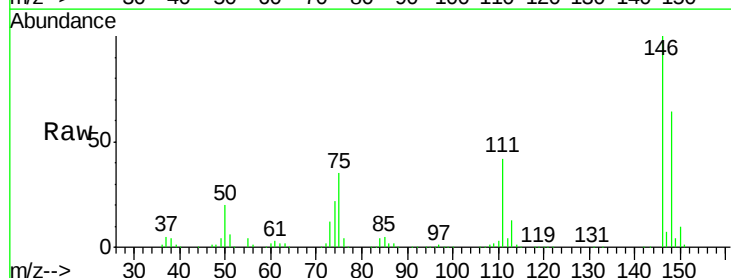
Tgt Ion:146 Resp: 2928184

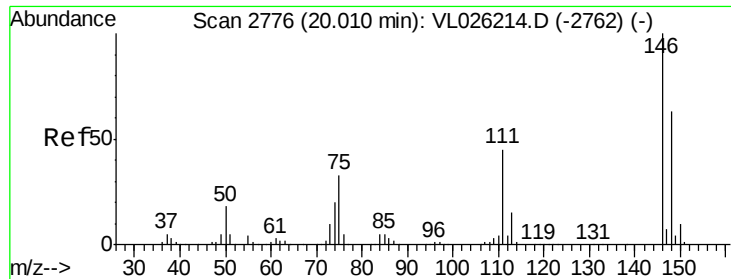
Ion Ratio Lower Upper

146 100

111 41.6 20.9 62.8

148 63.8 32.0 96.2





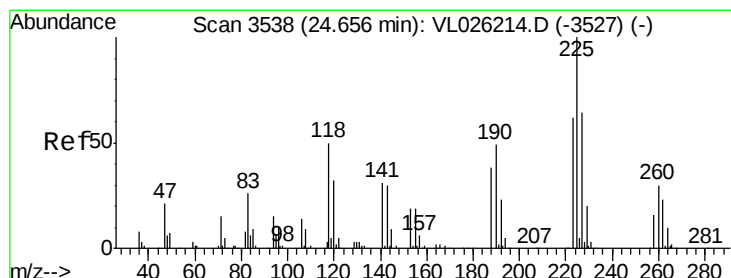
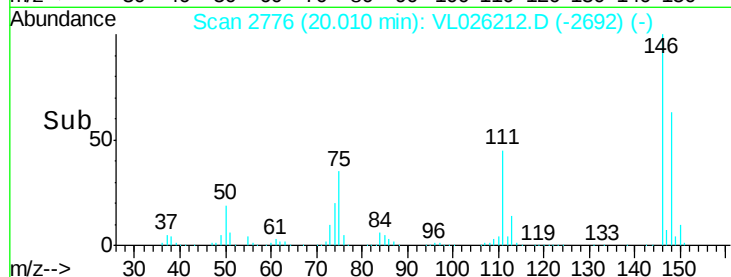
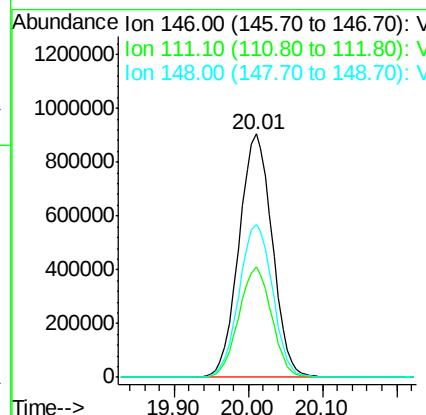
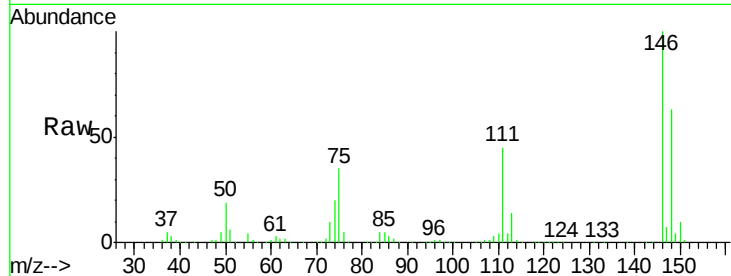
#77
 1,2-Dichlorobenzene
 Concen: 12.36 ppbv
 RT: 20.01 min Scan# 2776
 Delta R.T. 0.01 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.6	67.8
148	63.7	32.0	96.2

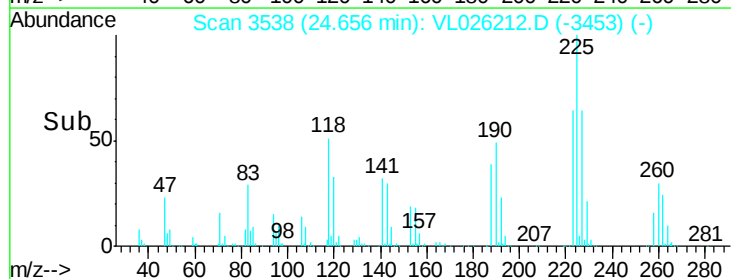
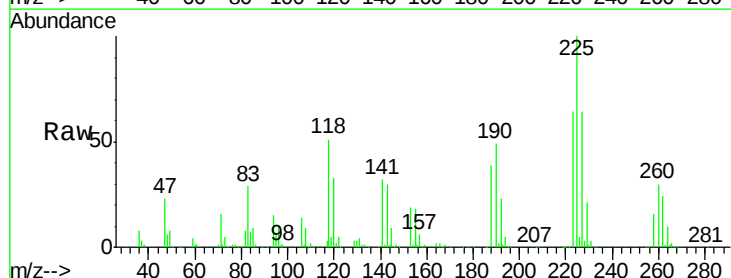
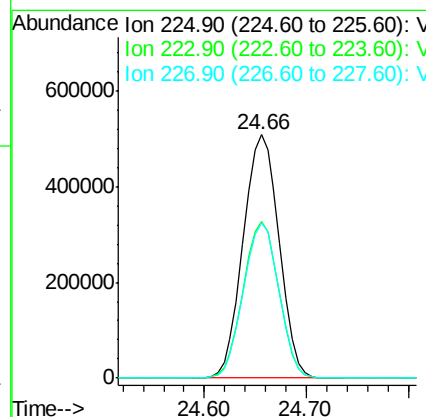
Manual Integrations
 APPROVED

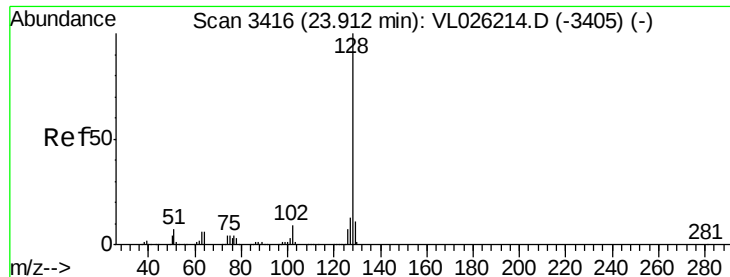
MMDadoda
 10/22/2015 4:31:05 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.03 ppbv
 RT: 24.66 min Scan# 3538
 Delta R.T. 0.02 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.7	76.1
227	63.2	50.2	75.2





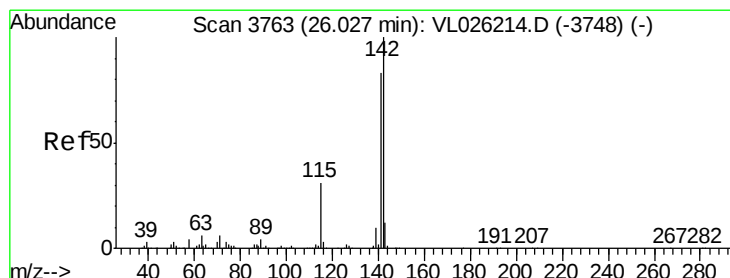
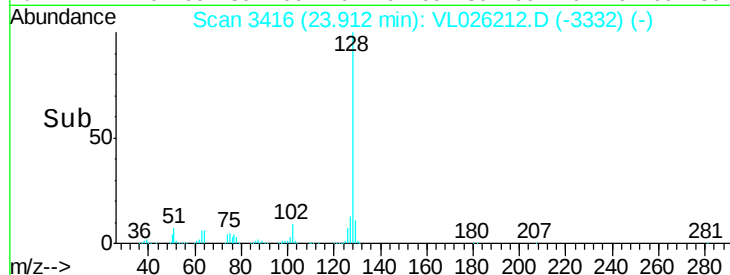
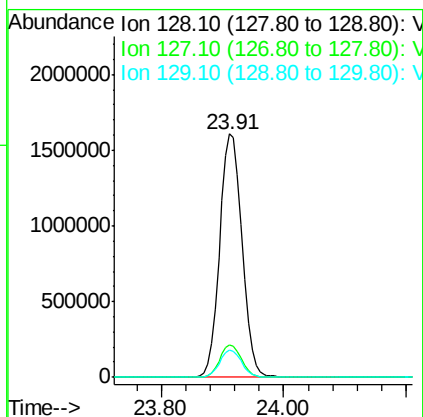
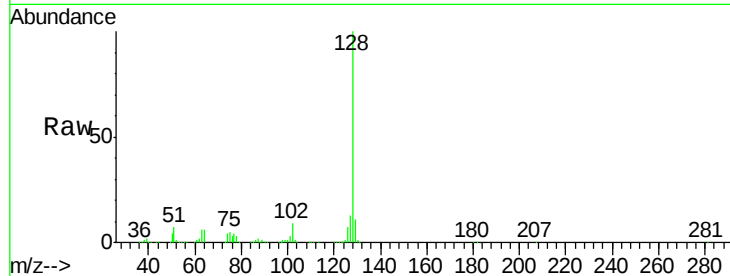
#79
Naphthalene
Concen: 15.70 ppbv
RT: 23.91 min Scan# 3416
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	11.0	16.6
129	11.4	8.7	13.1

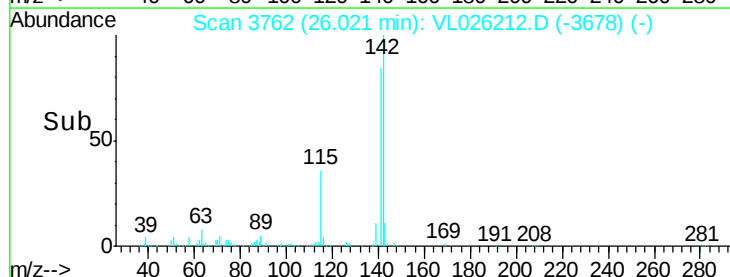
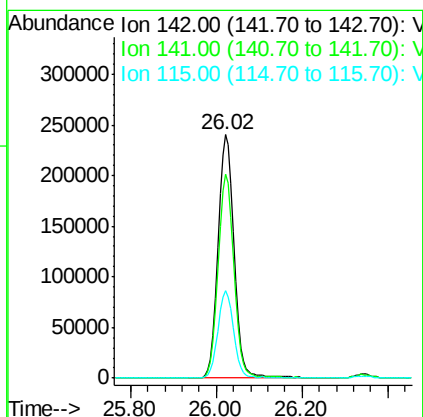
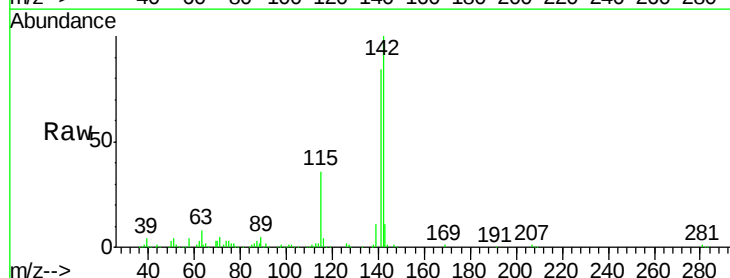
Manual Integrations
APPROVED

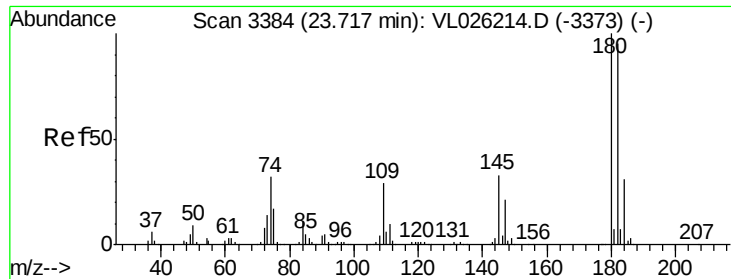
MMDadoda
10/22/2015 4:31:05 PM



#80
Naphthalene, 2-methyl-
Concen: 11.52 ppbv
RT: 26.02 min Scan# 3762
Delta R.T. 0.01 min
Lab File: VL026212.D
Acq: 20 Oct 2015 14:43

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.1	66.7	100.1
115	35.7	25.0	37.4





#81
 1,2,4-Trichlorobenzene
 Concen: 13.75 ppbv
 RT: 23.72 min Scan# 3384
 Delta R.T. 0.02 min
 Lab File: VL026212.D
 Acq: 20 Oct 2015 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.4	114.6
184	30.6	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:05 PM

